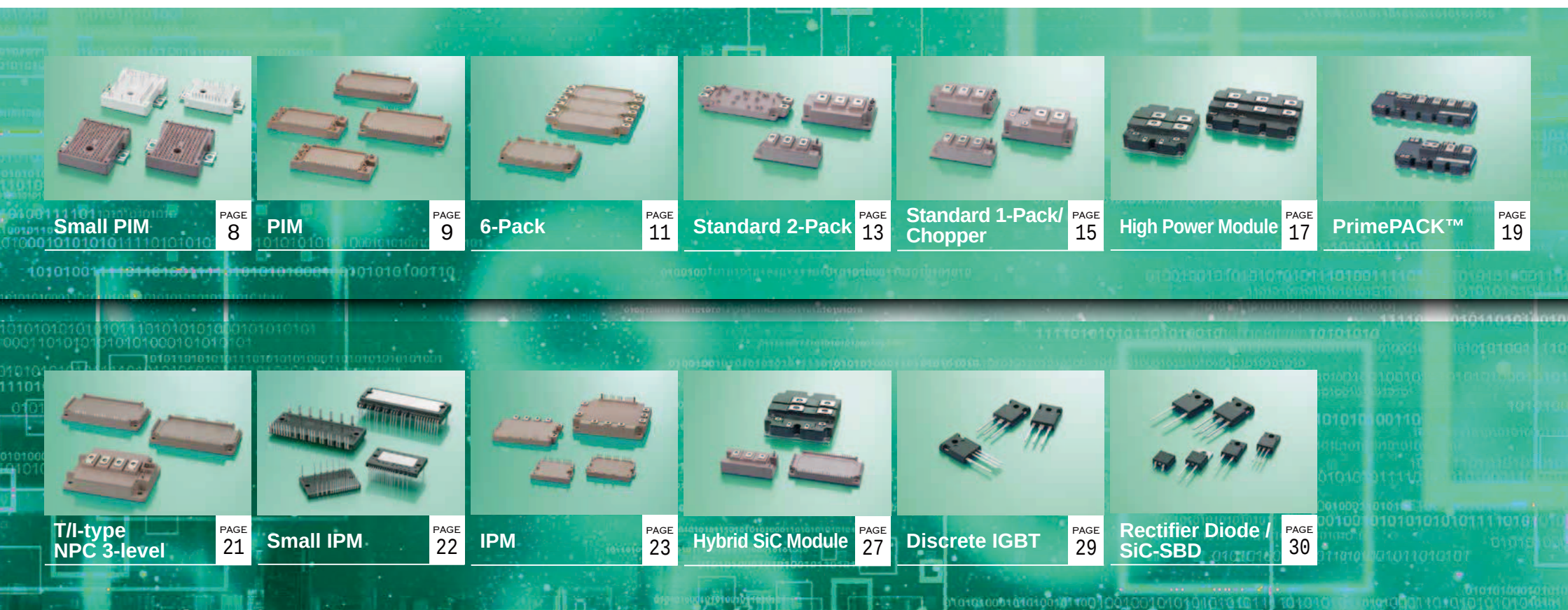


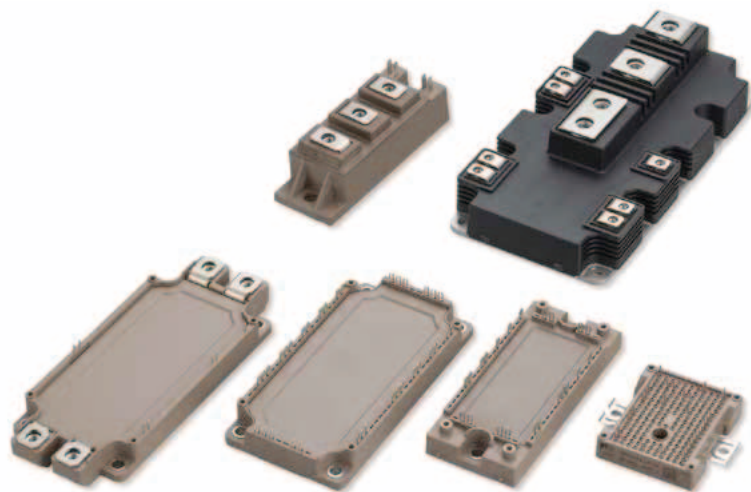
富士電機 パワー半導体

IGBT/SiC デバイス セレクションガイド



注: PrimePACK™ は Infineon Technologies 社の登録商標です。

IGBTモジュール Xシリーズの特長

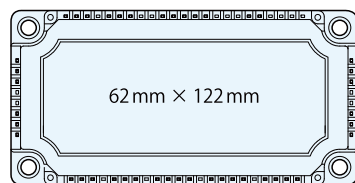


2. 小型化

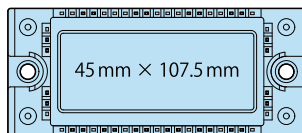
新たに開発した絶縁基板を適用し、モジュールの放熱性を向上。電力損失低減と併せて発熱を抑制することで、従来製品に比べて約 36% の小型化を達成。

適用例)

36% 小型化



75A(第6世代Vシリーズ)



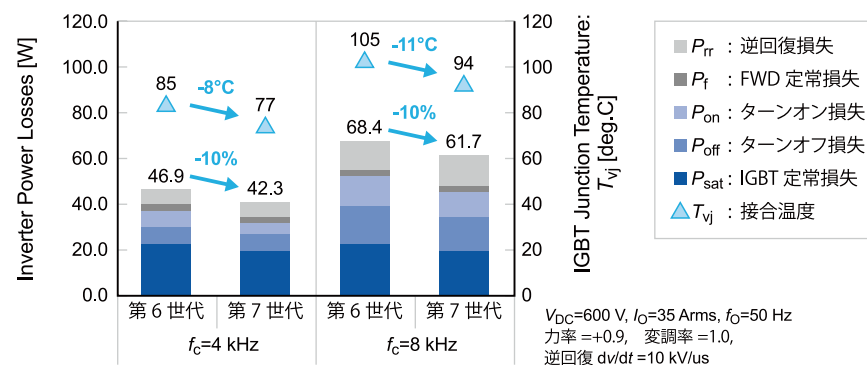
75A(第7世代Xシリーズ)

1. 低損失

本モジュールを構成する IGBT 素子およびダイオード素子の厚みを薄くし微細化することで、素子構造を最適化。これにより、従来製品（当社第 6 世代 V シリーズ）に比べてインバータ動作時の電力損失を低減。



インバータロス を 10%、チップ温度を 11℃ 低減
(第 6 世代 V シリーズ 75A, $f_c=8\text{kHz}$ 比較)



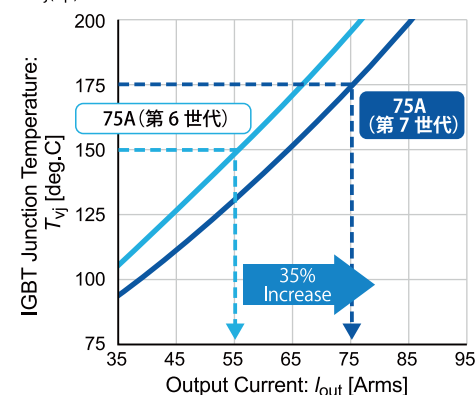
3. 高温動作

高信頼性・高耐熱パッケージおよびチップの最適化により 175℃連続動作を実現。



- ・従来製品より更に 35% の出力アップも可能
- ・ ΔT_{vj} パワーサイクル耐量向上 (従来比2 倍)

$T_{vj(op)}=175^\circ\text{C}$ 化による更なる出力アップ



IGBT スイッチ数		ページ	内部構成					最大電圧					定格電流						
	製品カテゴリ		IGBT モジュール			Discrete IGBT	Rectifier Diode	Discrete SiC-SBD	600V	650V	1200V	1700V	3300V	≤50A	>50A ≤150A	>150A ≤300A	>300A ≤600A	>600A ≤1200A	>1200A
			Standard Module	Power Integrated Module	Intelligent Power Module														
7	Small-PIM	8		✓				✓	✓	✓			✓						
	PIM EconoPIM™	9		✓				✓	✓	✓			✓	✓					
		10		✓				✓	✓	✓			✓	✓					
6	6-Pack EconoPACK™ EconoPACK™+	11						✓		✓	✓		✓	✓		✓			
		12	✓					✓		✓	✓		✓	✓	✓	✓			
2	Standard 2-Pack	13						✓	✓	✓	✓			✓	✓	✓			
		14	✓							✓	✓				✓	✓			
1	Standard 1-Pack	15	✓							✓	✓				✓	✓	✓		
	Chopper	15	✓					✓		✓	✓		✓	✓	✓		✓		
1,2	High Speed Module	16	✓							✓				✓	✓	✓			
	High Power Module	17,18	✓							✓	✓	✓			✓	✓	✓	✓	
	PrimePACK™	19,20	✓							✓	✓					✓	✓	✓	
4,12	T/I-type NPC 3-level	21	Reverse-Blocking IGBTs are integrated.					✓		✓	✓		✓	✓	✓	✓	✓		
6,7	IPM	22						✓	✓	✓			✓	✓					
		23,24						✓	✓	✓			✓	✓					
		25			✓			✓	✓	✓			✓	✓	✓				
		26						✓	✓	✓			✓	✓	✓	✓			
1,2,6,7	Hybrid SiC Module	27,28	✓	✓				✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	Discrete IGBT	29				✓		✓	✓	✓			✓	✓					
–	Rectifier Diode	30					✓		✓	✓			✓	✓					
–	SiC-SBD	30						✓	✓	✓			✓	✓					

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EconoPIM™ は Infineon Technologies 社の登録商標です。 EconoPACK™ は Infineon Technologies 社の登録商標です。

IGBTモジュール製品型式

6 MB I 300 X □ □ - 120 - 50

- Number of IGBT switches: 6
- IGBT Module type: MB = Si-IGBT+ Si-Diode, MS = Si-IGBT+ SiC-SBD, S = SiC-SBD
- Internal Configuration: I = Standard Module, R = Power Integrated Module, P = Intelligent Power Module
- Rated current I_c [A]: 300
- IGBT Device Technology: X Series(7th Generation) / XR Series(7th Generation) / V Series(6th Generation) / VW Series(6th Generation) / U Series(5th Generation)
- Package Type: □ □
- Max V_{ce} : 060 = 600V, 065 = 650V, 120 = 1200V, 170 = 1700V, 330 = 3300V
- Suffix 50 to 99 indicates RoHS compliance

ディスクリットIGBT製品型式

F G W 50 N 65 W D

- Company Code: F
- Device Code: G = IGBT
- Package Type: W = TO-247-P or TO-247-P2, Z = TO-247-4-P2
- Rated Current I_c [A]: 50
- Polarity: N = N-ch
- Series: XS-XS series
- Max V_{ce} : 60 = 600V, 65 = 650V, 120 = 1200V
- Diode Type: C = With Diode(Full rated), D = With Diode, Blank = Without Diode

F G W 40 XS 65 C

- Company Code: F
- Device Code: G = IGBT
- Package Type: W = TO-247-P or TO-247-P2, Z = TO-247-4-P2
- Rated Current I_c [A]: 40
- Series: XS-XS series
- Max V_{ce} : 65 = 650V
- Diode Type: C = With Diode(Full rated), D = With Diode, Blank = Without Diode

整流ダイオード製品型式

F DR W 50 C 65 L

- Company Code: F
- Device Code: DR = FWD
- Package Type: P = TO-220, W = TO-247-P2 or TO-247(2pin)-P2 or TO-247-2L-P2
- Rated Current I_F [A]: 50
- Configuration: C = Dual (Cathode common), S or T = Single
- Series: L = Ultra Fast Recovery, J = Soft/Fast Recovery
- Max V_{RRM} : 60 = 600V, 65 = 650V, 120 = 1200V

SiCショットキーバリアダイオード製品型式

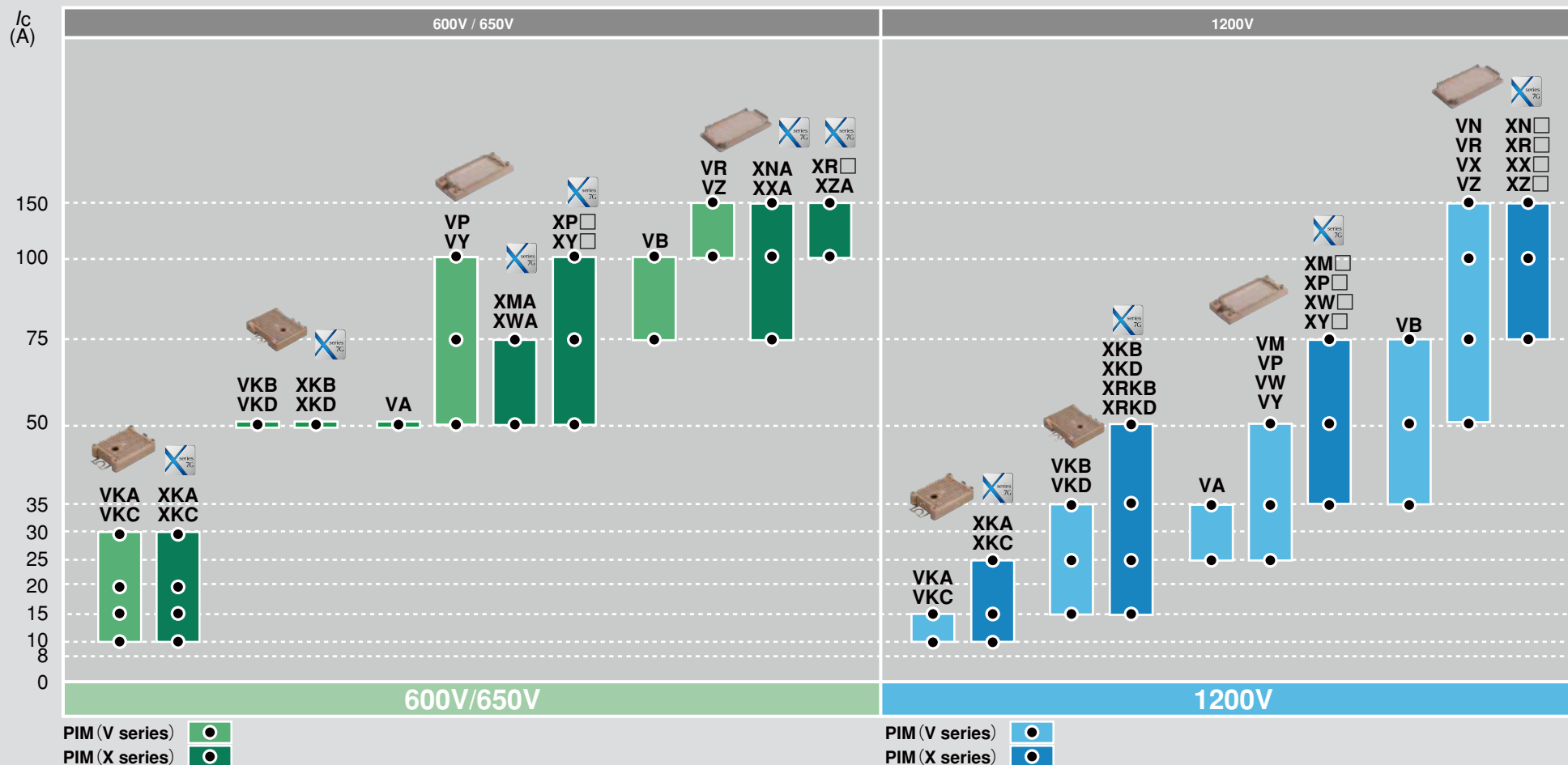
F DC P 10 S 65

- Company Code: F
- Device Code: DC = SiC-SBD
- Package Type: A = TO-220F, C = T-Pack(s), P = TO-220, Y = TO-247, W = TO-247-2L-P2
- Rated Current I_F [A]: 10
- Configuration: C = Dual (Cathode common), S or T = Single
- Max V_{RRM} : 65 = 650V, 120 = 1200V

PIM (Power Integrated Modules) 製品系列マップ

7MBR 定格電流 Ic	IGBT series & Package type						EconoPIM™
	V series		X series				
	Solder pins	Press fit pins	Solder pins	Press fit pins	サイズ	ページ	
	VKC	VKA	XKC	XKA	33.8×62.8mm	8	
	VKD	VKB	XKD, XRKD	XKB, XRKB	56.7×62.8mm	8	
	VA, VM, VP	VW, VY	XM□, XP□	XW□, XY□	45×107.5mm	9,10	
	VB, VN, VR	VX, VZ	XN□, XR□	XX□, XZ□	62×122mm	9,10	

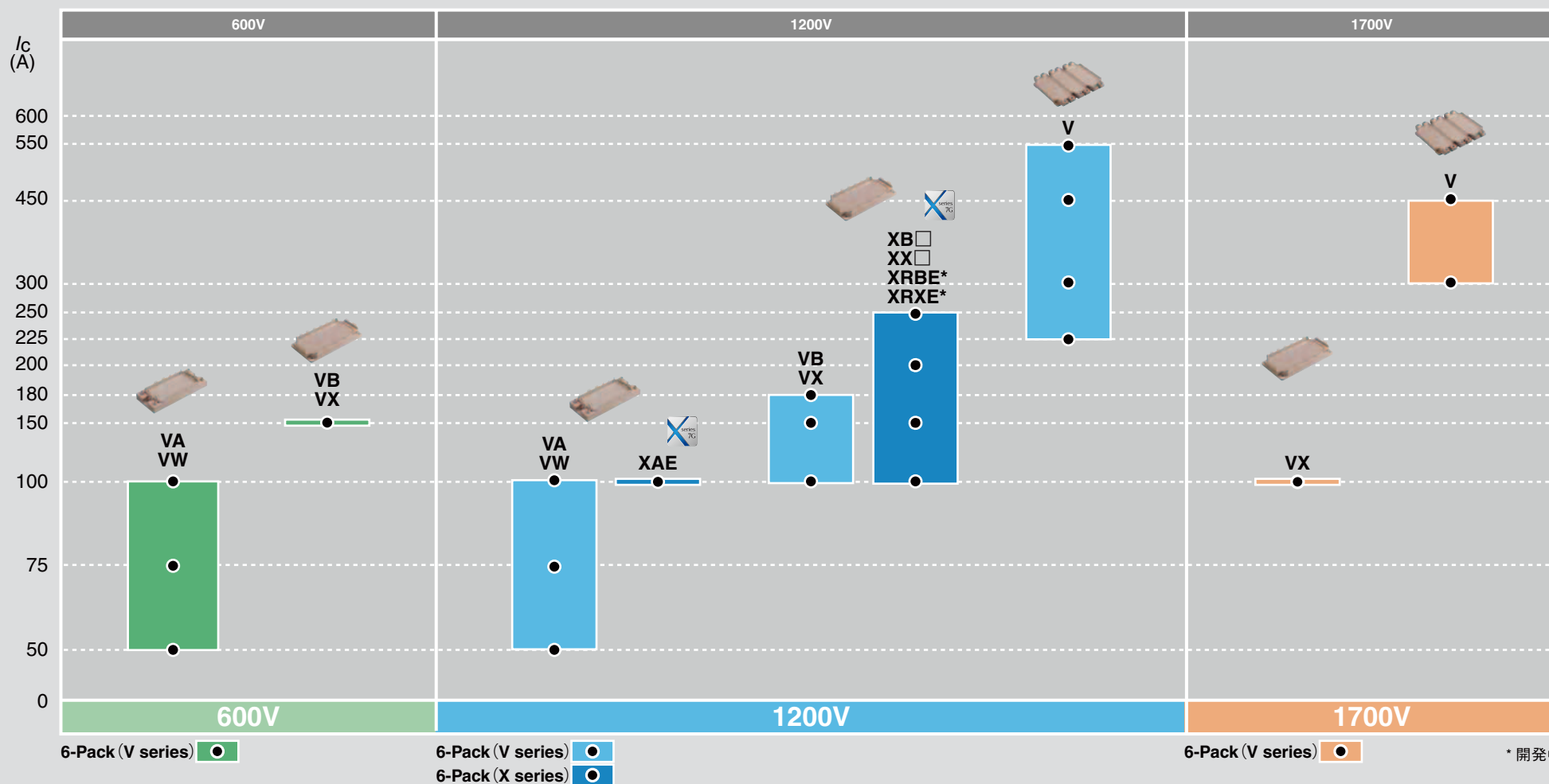
注：EconoPIM™ は Infineon Technologies 社の登録商標です。



6-Pack 製品系列マップ

6MBI	定格電流 I _c	IGBT series & Package type						
		V series		X series				
		Solder pins	Press fit pins	Solder pins	Press fit pins	サイズ	ページ	
		VA	VW	XAE		45×107.5mm	11,12	EconoPACK™
		VB	VX	XB□, XRBE	XX□, XRXE	62×122mm	11,12	
		V				150×162mm	12	EconoPACK™+

注: EconoPIM™ は Infineon Technologies 社の登録商標です。

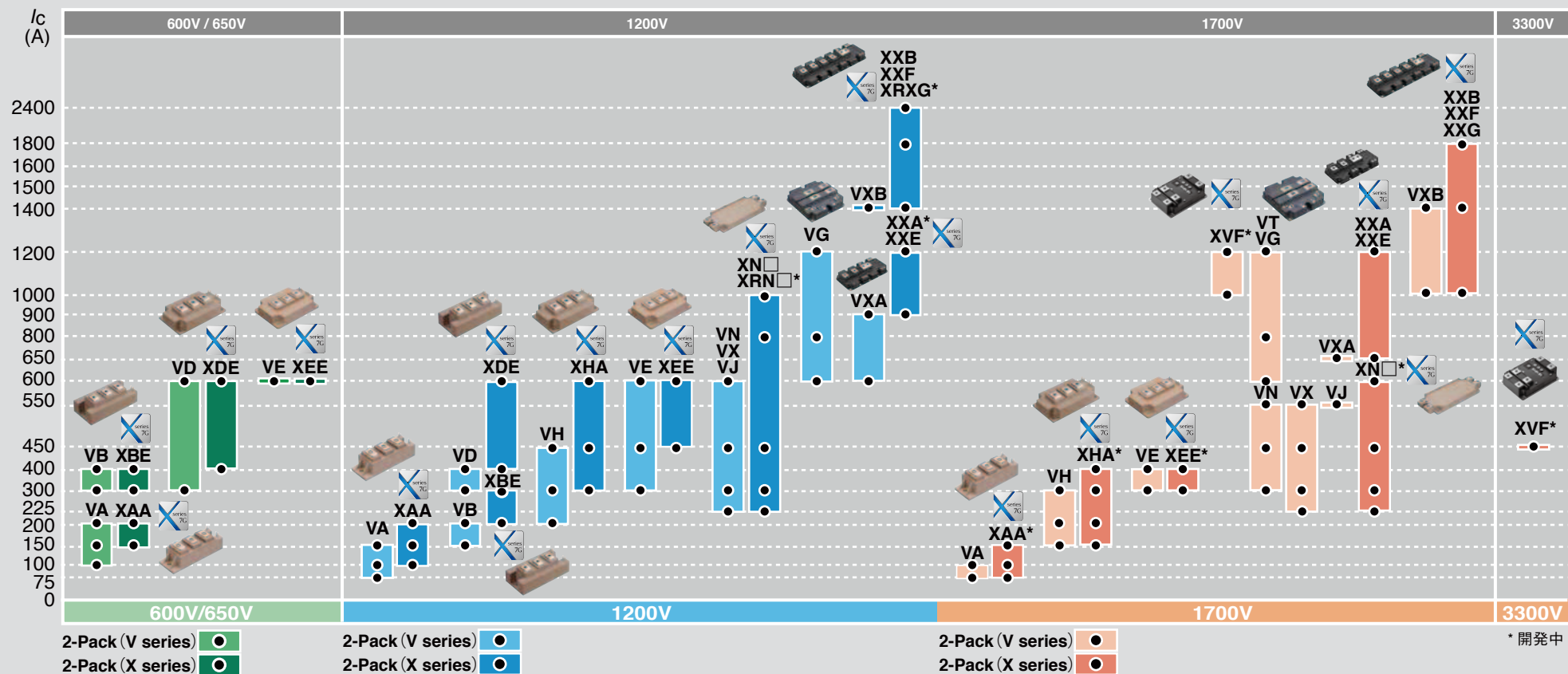


* 開発中

2-Pack 製品系列マップ

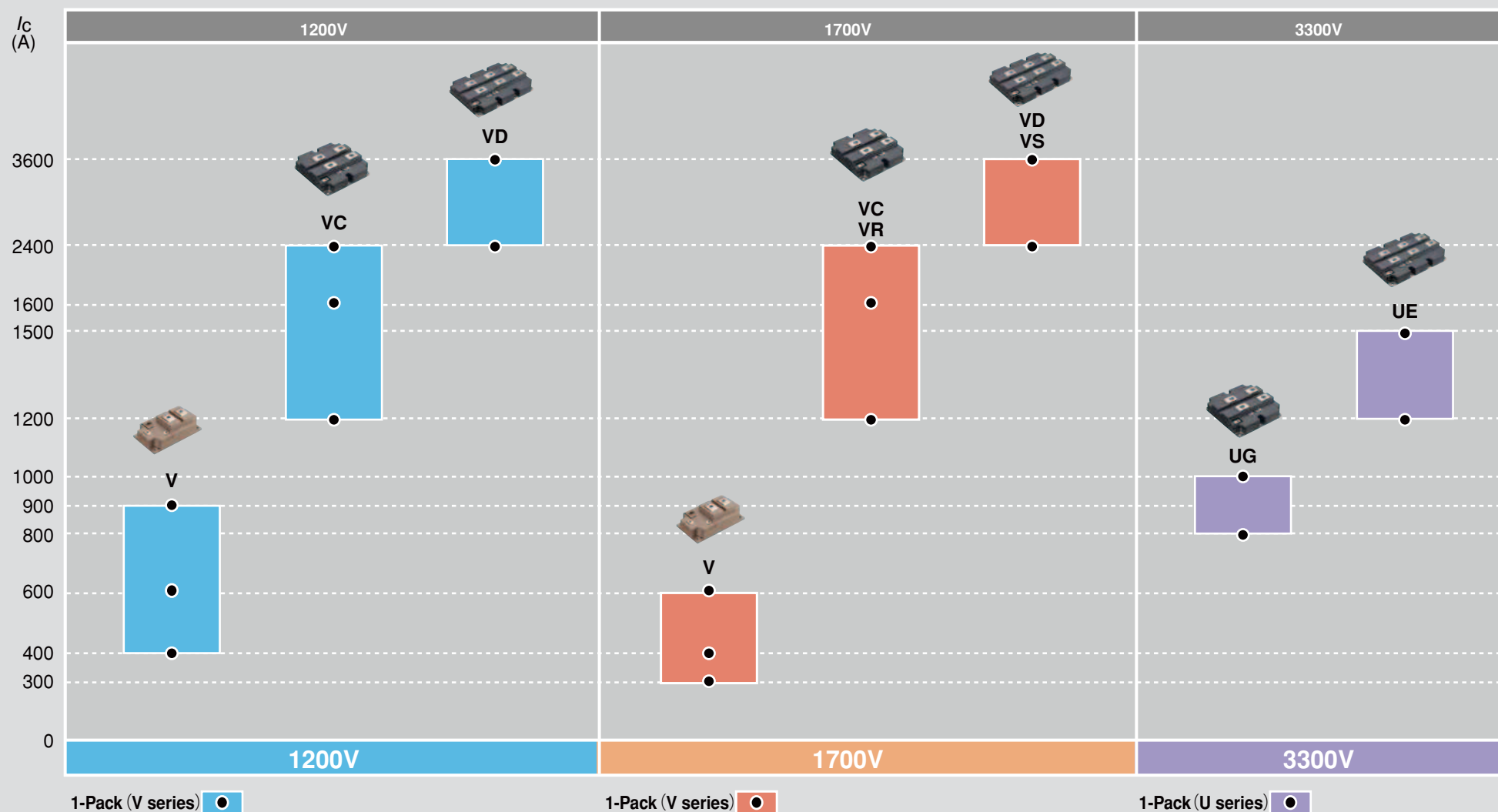
2MBI	定格電流 I_c	IGBT series & Package type		サイズ	ページ	
		V series	X series			
		VA	XAA	34×94mm	13	Standard Pack
		VB	XBE	45×92mm	13	
		VD	XDE	62×108mm	13	
		VE	XEE	80×110mm	13	
		VH	XHA	62×108mm	13	
		VJ, VN, VX	XN□, XRN□	62×150mm	14	
		-	XVF	100×140mm	18	HPnC
		VG, VT	-	140×130mm	17	High Power Module
		VXA	XXA, XXE	89×172mm	19	PrimePACK™
		VXB	XXB, XXF, XXG, XRXG	89×250mm	19	

注：PrimePACK™ は Infineon Technologies 社の登録商標です。



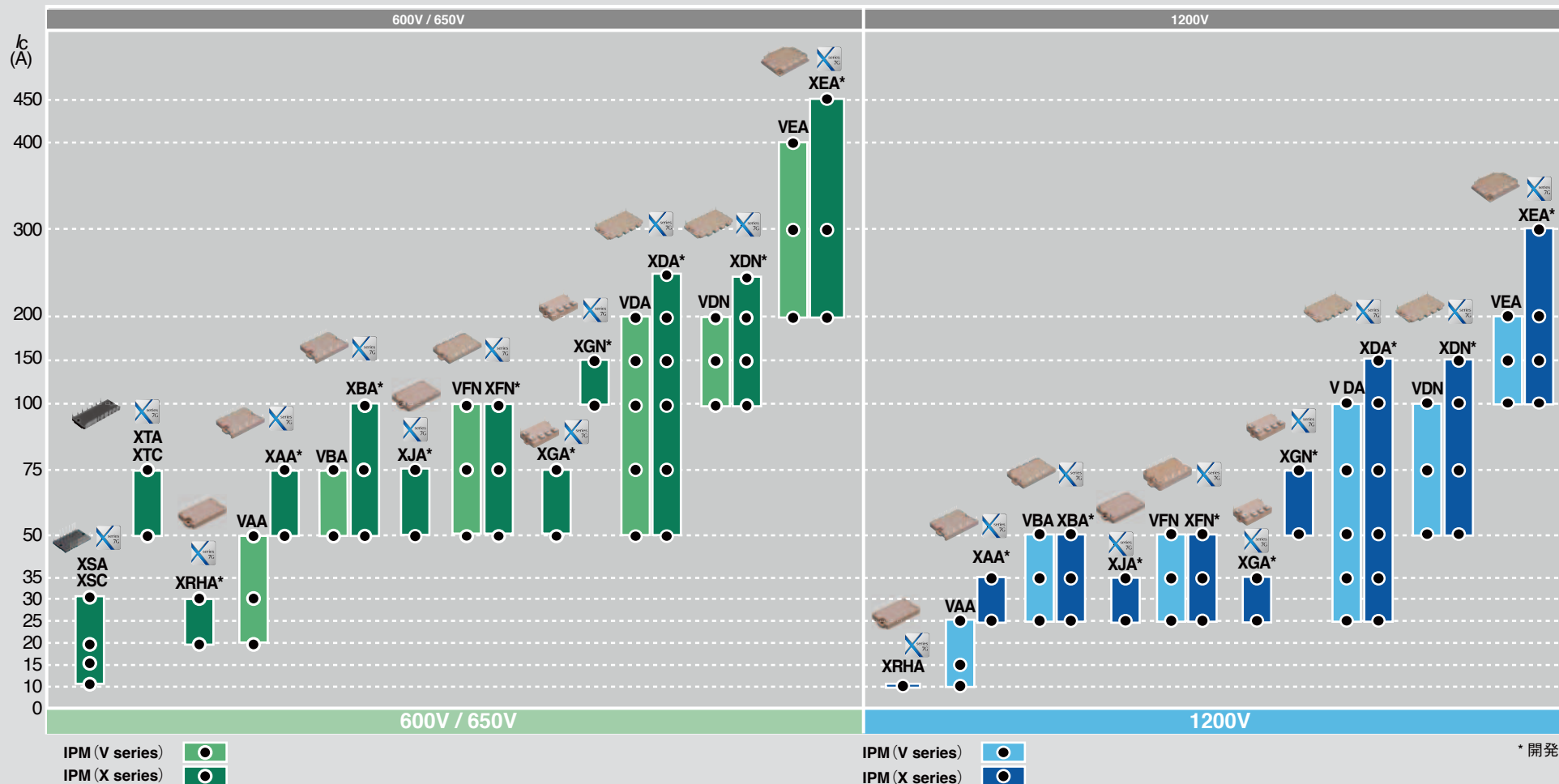
1-Pack 製品系列マップ

1MBI	定格電流 I _c	IGBT series & Package type			
		V/U series	サイズ [*]	ページ	
		V	62×108mm	15	Standard Pack
		VC, VR, UG	140×130mm	17	High Power Module
		VD, VS, UE	140×190mm	17	



IPM (Intelligent P Power Modules) 製品系列マップ

6/7MBP	定格電流 Ic	IGBT series & PacZkage type		V series		X series		ページ
		V series	X series	サイズ	7 in 1	6 in 1	7 in 1	
		—	—	—	—	—	—	
		—	XSA, XSC	26×43mm	—	—	—	22
		—	XTA, XTC	79×31mm	—	—	—	22
		—	XRHA	36×70mm	—	—	—	23
		VAA	XAA	49.5×70mm	—	✓	—	23
		VBA	XBA	50.2×87mm	—	✓	—	23
		—	XJA	50.2×87mm	—	—	✓	23
		VFN	XFN	55×90mm	✓	✓	✓	24
		—	XGA, XGN	55×90mm	—	—	—	24
		VDA, VDN	XDA, XDN	84×128.5mm	✓	✓	✓	25
		VEA	XEN	110×142mm	✓	✓	✓	26



Small PIM (Power Integrated Modules)

mm

Ic

650V



X series

600V

V series

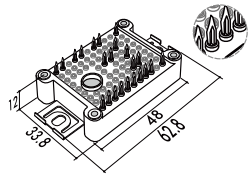
1200V



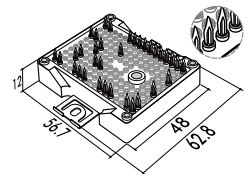
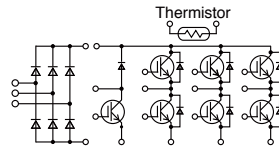
X series

V series

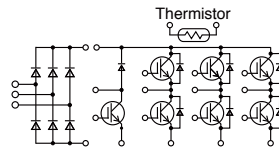
With NTC, press fit pins



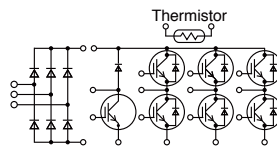
V: M726, X: M730



V: M727, X: M731

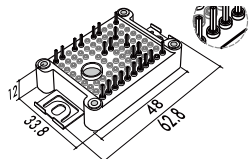


XKB, VKB

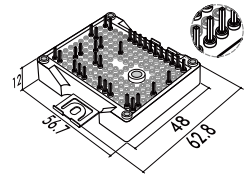
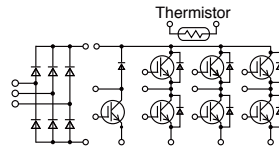


XRKB

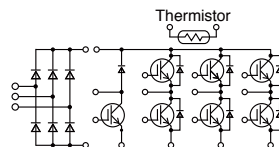
With NTC, solder pins



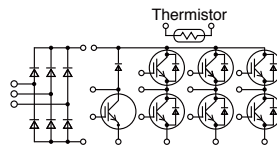
V: M728, X: M732



V: M729, X: M733



XKD, VKD

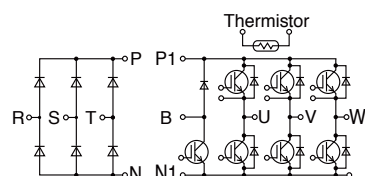
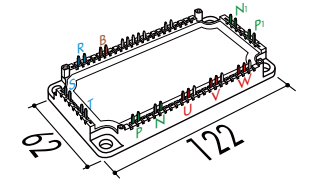
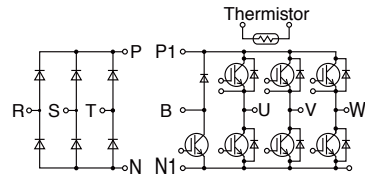
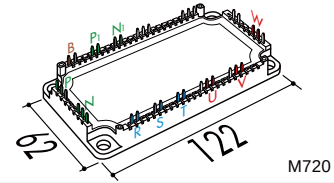
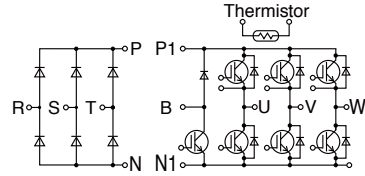
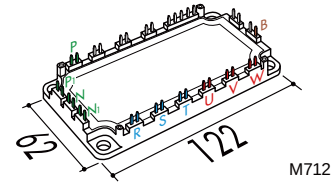
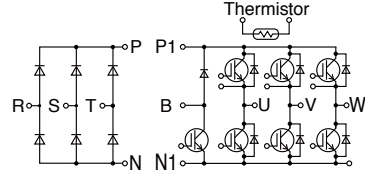
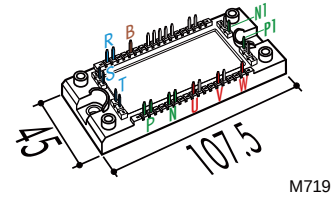
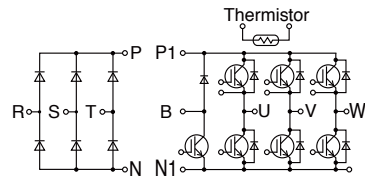
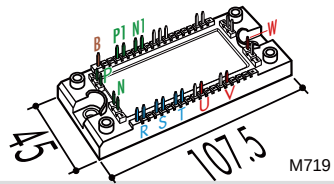
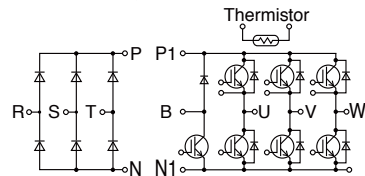
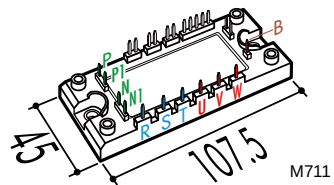


XRKD

	650V	600V	1200V
	X series	V series	X series
10A	7MBR10XKA065-50	7MBR10VKA060-50	7MBR10XKA120-50
15A	7MBR15XKA065-50	7MBR15VKA060-50	7MBR15XKA120-50
20A	7MBR20XKA065-50	7MBR20VKA060-50	
25A			7MBR25XKA120-50
30A	7MBR30XKA065-50	7MBR30VKA060-50	
15A			7MBR15XKB120-50
25A			7MBR25XKB120-50
35A			7MBR35XKB120-50
50A	7MBR50XKB065-50	7MBR50VKB060-50	7MBR50XRKB120-50
10A	7MBR10XKC065-50	7MBR10VKC060-50	7MBR10XKC120-50
15A	7MBR15XKC065-50	7MBR15VKC060-50	7MBR15XKC120-50
20A	7MBR20XKC065-50	7MBR20VKC060-50	
25A			7MBR25XKC120-50
30A	7MBR30XKC065-50	7MBR30VKC060-50	
15A			7MBR15XKD120-50
25A			7MBR25XKD120-50
35A			7MBR35XKD120-50
50A	7MBR50XKD065-50	7MBR50VKD060-50	7MBR50XRKD120-50

PIM (Power Integrated Modules) EconoPIM™

With NTC, solder pins, PIM



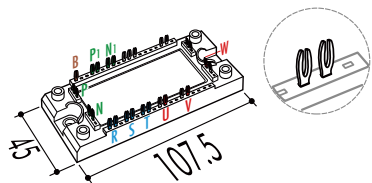
Ic	650V	600V	1200V	
	X series	V series	X series	V series
25A				7MBR25VA120-50
35A				7MBR35VA120-50
50A		7MBR50VA060-50		
25A				7MBR25VM120-50
35A			7MBR35XMA120-50	7MBR35VM120-50
50A	7MBR50XMA065-50		7MBR50XMA120-50	7MBR50VM120-50
75A	7MBR75XMA065-50		7MBR75XME120-50	
25A				7MBR25VP120-50
35A			7MBR35XPA120-50	7MBR35VP120-50
50A	7MBR50XPA065-50	7MBR50VP060-50	7MBR50XPA120-50	7MBR50VP120-50
75A	7MBR75XPA065-50	7MBR75VP060-50	7MBR75XPE120-50	
100A	7MBR100XPE065-50	7MBR100VP060-50	7MBR75XPE120-50	
35A				7MBR35VB120-50
50A				7MBR50VB120-50
75A		7MBR75VB060-50		7MBR75VB120-50
100A		7MBR100VB060-50		
50A				7MBR50VN120-50
75A	7MBR75XNA065-50		7MBR75XNA120-50	7MBR75VN120-50
100A	7MBR100XNA065-50		7MBR100XNA120-50	7MBR100VN120-50
150A	7MBR150XNA065-50		7MBR150XNE120-50	7MBR150VN120-50
50A				7MBR50VR120-50
75A			7MBR75XRA120-50	7MBR75VR120-50
100A	7MBR100XRA065-50	7MBR100VR060-50	7MBR100XRA120-50	7MBR100VR120-50
150A	7MBR150XRA065-50	7MBR150VR060-50	7MBR150XRE120-50	7MBR150VR120-50
	7MBR150XRE065-50			

注：EconoPIM™ は Infineon Technologies 社の登録商標です。

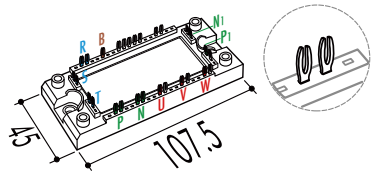
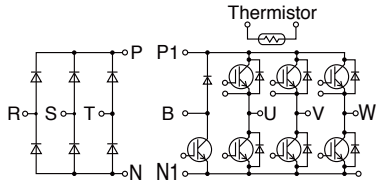
With NTC, press fit pins. PIM

PIM (Power Integrated Modules) EconoPIM™

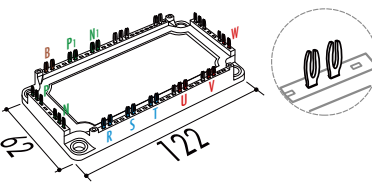
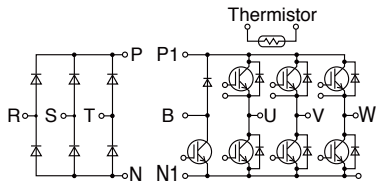
mm



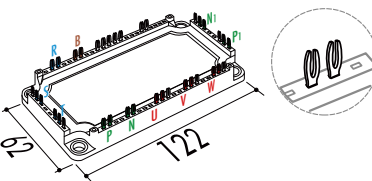
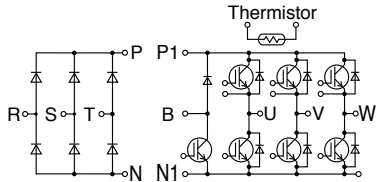
M721



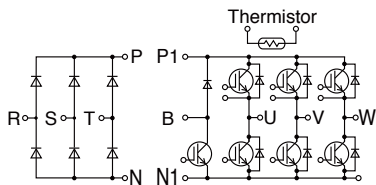
M721



M722



M722



Ic	650V	600V	1200V	
	X series	V series	X series	V series
25A				7MBR25VW120-50
35A			7MBR35XWA120-50	7MBR35VW120-50
50A	7MBR50XWA065-50		7MBR50XWA120-50	7MBR50VW120-50
75A	7MBR75XWA065-50		7MBR75XWE120-50	
25A				7MBR25VY120-50
35A			7MBR35XYA120-50	7MBR35VY120-50
50A	7MBR50XYA065-50	7MBR50VY060-50	7MBR50XYA120-50	7MBR50VY120-50
75A	7MBR75XYA065-50	7MBR75VY060-50	7MBR75XYE120-50	
100A	7MBR100XYE065-50	7MBR100VY060-50		
50A				7MBR50VX120-50
				7MBR50VX120-80
75A	7MBR75XXA065-50		7MBR75XXA120-50	7MBR75VX120-50
				7MBR75VX120-80
100A	7MBR100XXA065-50		7MBR100XXA120-50	7MBR100VX120-50
				7MBR100VX120-80
150A	7MBR150XXA065-50		7MBR150XXE120-50	7MBR150VX120-50
				7MBR150VX120-80
50A				7MBR50VZ120-50
				7MBR50VZ120-80
75A			7MBR75XZA120-50	7MBR75VZ120-50
				7MBR75VZ120-80
100A	7MBR100XZA065-50	7MBR100VZ060-50	7MBR100XZA120-50	7MBR100VZ120-50
		7MBR100VZ060-80		7MBR100VZ120-80
150A	7MBR150XZA065-50	7MBR150VZ060-50	7MBR150XZE120-50	7MBR150VZ120-50
		7MBR150VZ060-80		7MBR150VZ120-80

注 1: EconoPIM™ は Infineon Technologies 社の登録商標です。
注 2: “-80°” : “-50°” に対して高熱伝導体の TIM (Thermal-Interface-Material) をモジュールベース面に塗布。

6-Pack EconoPACK™

mm

Ic

600V

1200V

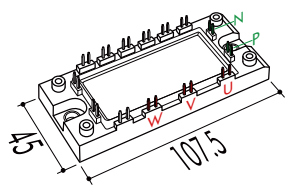
V series

X series

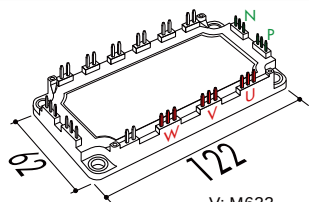
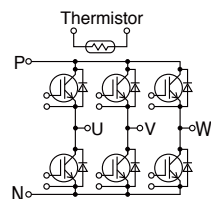


V series

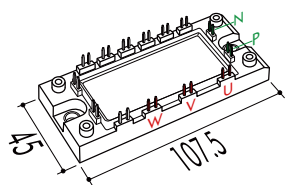
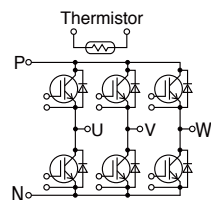
With NTC, solder pins



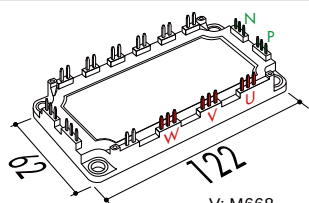
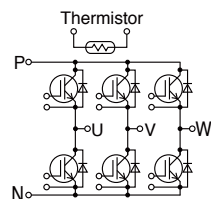
V: M636



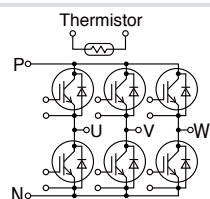
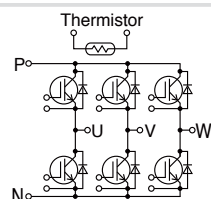
V: M633



X: M669



V: M668



XBA, XBE

XRBE

Ic	600V	1200V
	V series	X series
50A	6MBI50VA-060-50	
75A	6MBI75VA-060-50	
100A	6MBI100VA-060-50	
100A		6MBI100VB-120-50
150A	6MBI150VB-060-50	6MBI150VB-120-50
180A		6MBI180VB-120-50
		6MBI180VB-120-55
100A		6MBI100XAE120-50
100A		6MBI100XBA120-50
150A		6MBI150XBA120-50
200A		6MBI200XBA120-50
		6MBI200XBE120-50
250A		6MBI250XRBE120-50*

注 1: 6MBI180VB-120-55; プレミアムタイプ (低熱抵抗バージョン)

注 2: EconoPACK™ は Infineon Technologies 社の登録商標です。

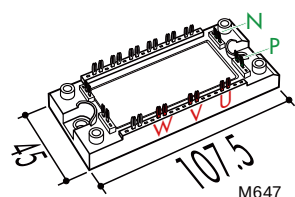
* 開発中

6-Pack EconoPACK™

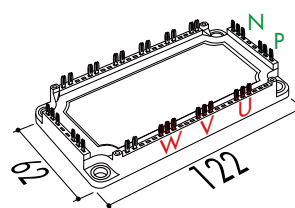
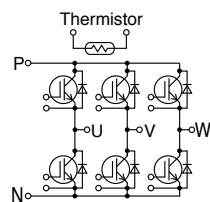
mm

Ic

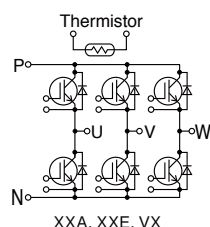
With NTC, press fit pins



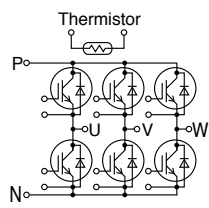
M647



M648



XXA, XXE, VX



XRXE

	600V	1200V	1700V
	V series	X series	V series
50A	6MBI50VW-060-50		6MBI50VW-120-50
75A	6MBI75VW-060-50		6MBI75VW-120-50
100A	6MBI100VW-060-50		6MBI100VW-120-50
100A		6MBI100XXA120-50	6MBI100VX-120-50
			6MBI100VX-120-80
			6MBI100VX-170-80
150A	6MBI150VX-060-50	6MBI150XXA120-50	6MBI150VX-120-50
	6MBI150VX-060-80		6MBI150VX-120-80
180A			6MBI180VX-120-50
			6MBI180VX-120-80
			6MBI180VX-120-55
			6MBI180VX-120-85
200A		6MBI200XXA120-50	
		6MBI200XXE120-50	
250A		6MBI250XRXE120-50*	

注1: 6MBI180VX-120-55; プレミアムタイプ (低熱抵抗バージョン)

注2: "-80" : "-85" : "-50" , "-55" に対して高熱伝導体の TIM (Thermal-Interface-Material) をモジュールベース面に塗布。

注3: EconoPACK™ は Infineon Technologies 社の登録商標です。

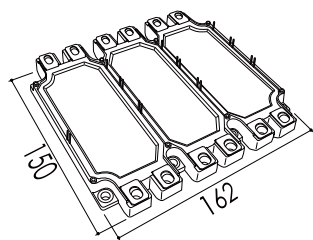
* 開発中

6-Pack EconoPACK™+

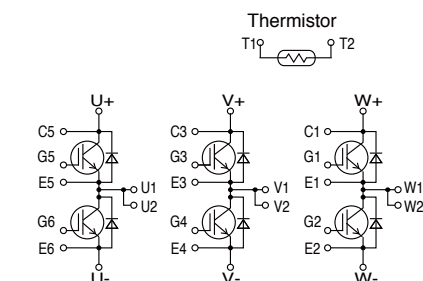
mm

Ic

With NTC, High power 6-Pack



M629



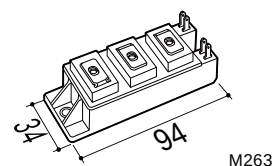
	1200V	1700V
	V series	V series
225A	6MBI225V-120-50	
300A	6MBI300V-120-50	6MBI300V-170-50
	6MBI300V-120-80	
450A	6MBI450V-120-50	6MBI450V-170-50
		6MBI450V-170-80
550A	6MBI550V-120-50	

注1: EconoPACK™+ は Infineon Technologies 社の登録商標です。

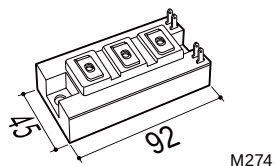
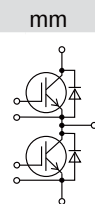
注2: "-80" : "-50" に対して高熱伝導体の TIM (Thermal-Interface-Material) をモジュールベース面に塗布。

Standard 2-Pack

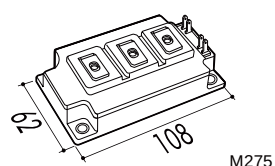
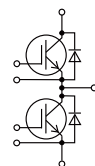
2-Pack



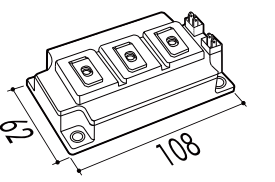
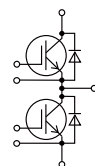
M263



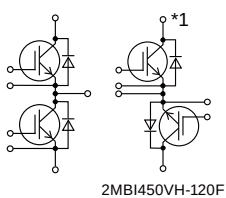
M274



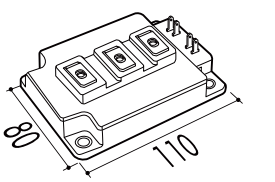
M275



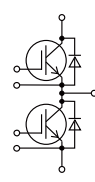
M276



2MBI450VH-120F



M277



Ic	650V	600V	1200V	1700V
	X series	V series	X series	V series
75A			2MBI75VA-120-50	2MBI75XAA170-50
100A		2MBI100VA-060-50	2MBI100XAA120-50	2MBI100VA-170-50
150A	2MBI150XAA065-50	2MBI150VA-060-50	2MBI150XAA120-50	2MBI150VA-170-50
200A	2MBI200XAA065-50	2MBI200VA-060-50	2MBI200XAA120-50	
150A			2MBI150VB-120-50	
200A			2MBI200XBE120-50	2MBI200VB-120-50
300A	2MBI300XBE065-50	2MBI300VB-060-50	2MBI300XBE120-50	
400A	2MBI400XBE065-50	2MBI400VB-060-50		
300A				2MBI300VD-120-50
400A	2MBI400XDE065-50	2MBI400VD-060-50	2MBI400XDE120-50	2MBI400VD-120-50
600A	2MBI600XDE065-50	2MBI600VD-060-50	2MBI600XDE120-50	
150A				2MBI150XHA170-50
200A				2MBI150VH-170-80
300A			2MBI300XHA120-50	2MBI200VH-170-50
400A				2MBI200VH-170-80
450A			2MBI450XHA120-50	2MBI300VH-170-50
600A				2MBI300VH-170-80
300A				2MBI400XHA170-50
400A				
450A				
600A			2MBI600XHA120-50	
300A				2MBI300VE-170-50
400A				2MBI300VE-170-80
450A			2MBI450XEE120-50	2MBI400VE-170-50
600A	2MBI600XEE065-50	2MBI600VE-060-50	2MBI600XEE120-50	2MBI400VE-170-80
		2MBI600VE-060-80		
			2MBI600VE-120-80	

注：“-80”：“-50”に対して高熱伝導体のTIM（Thermal-Interface-Material）をモジュールベース面に塗布。

Standard 2-Pack

mm

Ic

1200V

1700V

X series



V series

V series With
SiN substrate *1

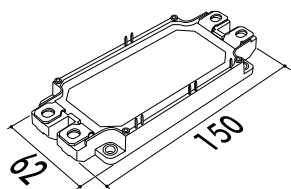
X series



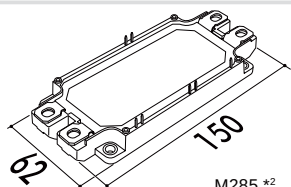
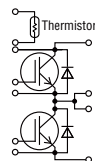
V series

V series With
SiN substrate *1

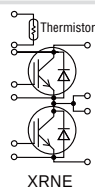
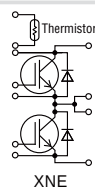
With NTC, solder pins



M254



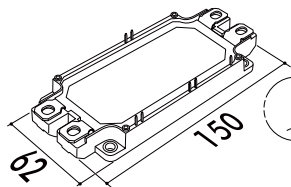
M285 *2



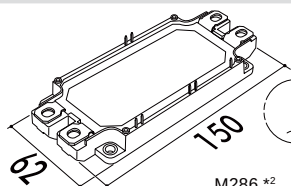
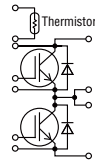
XNE

XRNE

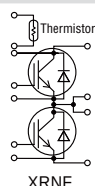
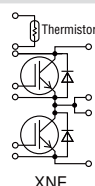
With NTC, press fit pins



M282



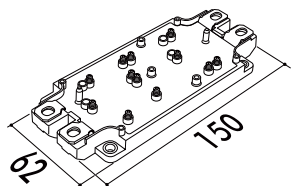
M286 *2



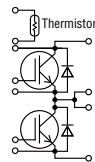
XNF

XRNF

With NTC, spring contacts



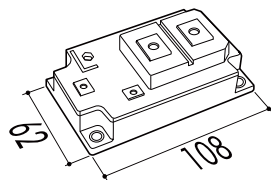
M260



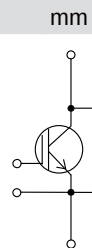
		X series	V series	V series With SiN substrate *1	X series	V series	V series With SiN substrate *1
225A	2MBI225XNA120-50	2MBI225VN-120-50	2MBI225VN-120S-50	2MBI225XNA170-50			
		2MBI225VN-120-80					
300A	2MBI300XNA120-50	2MBI300VN-120-50	2MBI300VN-120S-50	2MBI300XNA170-50	2MBI300VN-170-50		
		2MBI300VN-120-80	2MBI300VN-120S-80		2MBI300VN-170-80		
450A	2MBI450XNA120-50	2MBI450VN-120-50	2MBI450VN-120S-50	2MBI450XNA170-50	2MBI450VN-170-50		
		2MBI450VN-120-80	2MBI450VN-120S-80		2MBI450VN-170-80		
550A						2MBI550VN-170-50	
						2MBI550VN-170-80	
600A	2MBI600XNG120-50		2MBI600VN-120-50	2MBI600XNG170-50			
			2MBI600VN-120-80				
600A	2MBI600XNE120-50			2MBI600XNE170-50			
800A	2MBI800XNE120-50						
1000A	2MBI1000XRNE120-50						
225A	2MBI225XNB120-50	2MBI225VX-120-50		2MBI225XNB170-50	2MBI225VX-170-50		
		2MBI225VX-120-80			2MBI225VX-170-80		
300A	2MBI300XNB120-50	2MBI300VX-120-50		2MBI300XNB170-50	2MBI300VX-170-50		
		2MBI300VX-120-80			2MBI300VX-170-80		
450A	2MBI450XNB120-50	2MBI450VX-120-50		2MBI450XNB170-50	2MBI450VX-170-50		
		2MBI450VX-120-80			2MBI450VX-170-80		
550A						2MBI550VX-170-50	
						2MBI550VX-170-80	
600A	2MBI600XNH120-50		2MBI600VX-120-50	2MBI600XNH170-50			
			2MBI600VX-120-80				
600A	2MBI600XNF120-50			2MBI600XNF170-50			
800A	2MBI800XNF120-50						
1000A	2MBI1000XRNF120-50						
225A		2MBI225VJ-120-50					
		2MBI225VJ-120-80					
300A		2MBI300VJ-120-50					
		2MBI300VJ-120-80					
450A		2MBI450VJ-120-50					
		2MBI450VJ-120-80					
550A						2MBI550VJ-170-50	
						2MBI550VJ-170-80	
600A			2MBI600VJ-120-50				
			2MBI600VJ-120-80				

注1：“-80”：“-50”に対して高熱伝導体のTIM（Thermal-Interface-Material）をモジュールベース面に塗布。注2：*1低熱抵抗バージョン注3：*2高放熱、高耐トラッキング性パッケージ注4：製品名にXNE、XNF、XNG、XNH、XRNE、XRNFが付く型式は高放熱絶縁基板を採用

Standard 1-Pack



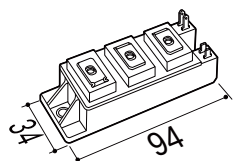
M153



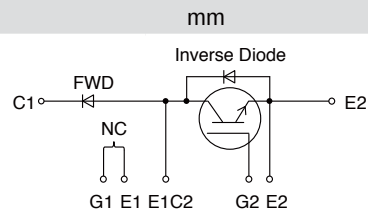
I_c

	1200V		1700V
	V series	V series with AlN substrate	V series
300A			1MBI300V-170-50
400A	1MBI400V-120-50	1MBI400VF-120-50	1MBI400V-170-50
600A	1MBI600V-120-50	1MBI600VF-120-50	1MBI600V-170-50
900A	1MBI900V-120-50		

Chopper

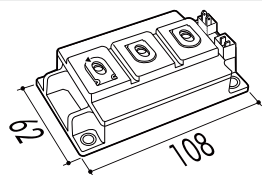


M262

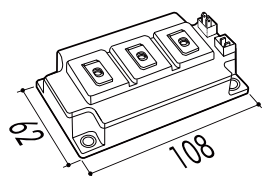
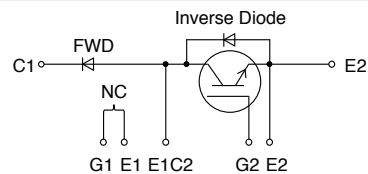


I_c

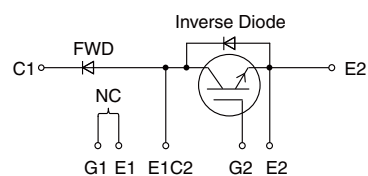
	600V		1200V	
	U series	V series	U series	V series
50A			1MBI50U4F-120L-50	
75A			1MBI75U4F-120L-50	
100A			1MBI100U4F-120L-50	
150A				1MBI150VA-120L-50
200A				1MBI200VA-120L-50
200A			1MBI200U4H-120L-50	
300A	1MBI300U2H-060L-50			
400A		1MBI400VH-060L-50		



M259

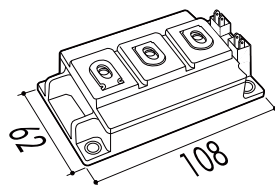


M283

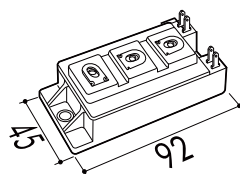
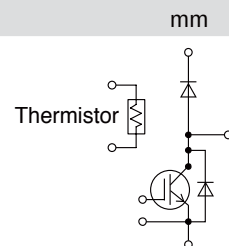


High Speed Modules

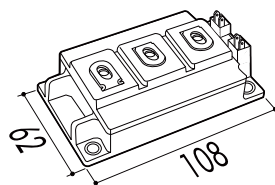
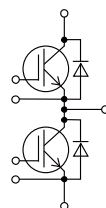
Chopper



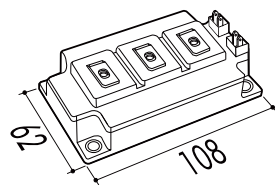
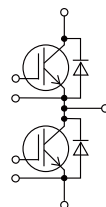
M249



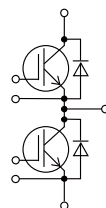
M233



M249



M276



I_c

1200V

High Speed IGBT

200A 1MBI200HH-120L-50

300A 1MBI300HH-120L-50

400A 1MBI400HH-120L-50

100A 2MBI100HB-120-50

150A 2MBI150HH-120-50

200A 2MBI200HH-120-50

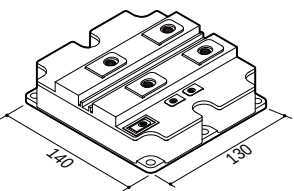
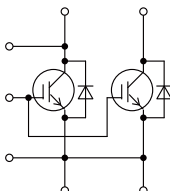
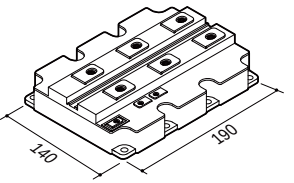
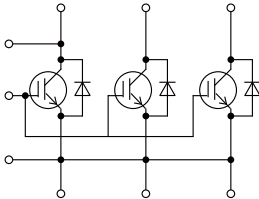
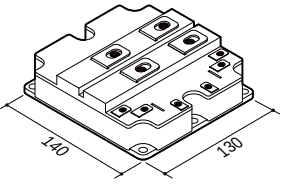
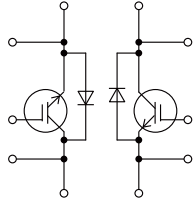
100A 2MBI100HJ-120-50

150A 2MBI150HJ-120-50

200A 2MBI200HJ-120-50

300A 2MBI300HJ-120-50

High Power Modules

		mm	I _C	1200V	1700V		3300V	
				V series Trench-FS Cu-baseplate	V series Trench-FS Cu-baseplate AlSiC-baseplate		U series Trench-FS AlSiC-baseplate AlSiC-baseplate Low switching loss	
1-Pack	 M151, M155		800A				1MBI800UG-330	
			1000A				1MBI1000UG-330	1MBI1000UG-330B
			1200A	1MBI1200VC-120P	1MBI1200VC-170E	1MBI1200VR-170E		
			1600A	1MBI1600VC-120P	1MBI1600VC-170E	1MBI1600VR-170E		
			2400A	1MBI2400VC-120P	1MBI2400VC-170E	1MBI2400VR-170E		
			1200A				1MBI1200UE-330	
1-Pack	 M152, M156		1500A				1MBI1500UE-330	1MBI1500UE-330B
			2400A	1MBI2400VD-120P	1MBI2400VD-170E	1MBI2400VS-170E		
			3600A	1MBI3600VD-120P	1MBI3600VD-170E	1MBI3600VS-170E		
2-Pack	 M256, M278		600A	2MBI600VG-120P	2MBI600VG-170E	2MBI600VT-170E		
			800A	2MBI800VG-120P	2MBI800VG-170E	2MBI800VT-170E		
			1200A	2MBI1200VG-120P	2MBI1200VG-170E	2MBI1200VT-170E		

Note: M151, M152, M256: Cu-baseplate M155, M156, M278: AlSiC-baseplate

High Power Modules

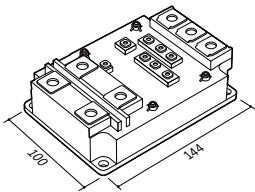
mm

Ic

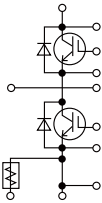
	1700V	3300V
X series	X series	X series
450A		2MBI450XVF330-50*
1000A	2MBI1000XVF170-50*	
1200A	2MBI1200XVF170-50*	

* 開発中

2-Pack HPnC

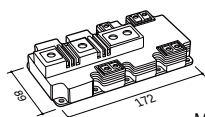


M292

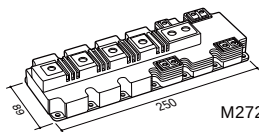
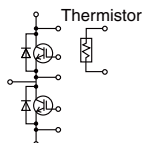


2-Pack

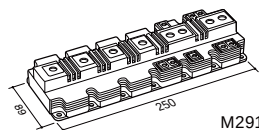
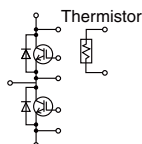
mm

lc

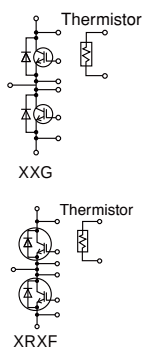
M271



M272



M291

[illegible]

注2：“-80”：“-54”に対して高熱伝導体のTIM（Thermal-Interface-Material）をモジュールベース面に塗布。

注4: PrimePACK™ は Infineon Technologies 社の登録商標です。
注5: P の付く型式は Soft turn off タイプ

* 開発中

PrimePACK™

mm

Ic

1200V

1700V

V series

V series

Low side configuration

High side configuration

Low side configuration

High side configuration

650A

900A

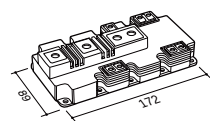
1000A

1400A

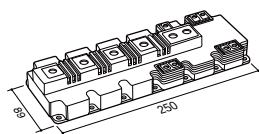
1MBI900VXA-120PD-50 *1	1MBI900VXA-120PC-50 *1
1MBI900VXA-120PD-54 *1	1MBI900VXA-120PC-54 *1
1MBI900VXA-120PD-80 *1	1MBI900VXA-120PC-80 *1
1MBI1400VXB-120PL-54	1MBI1400VXB-120PH-54
1MBI1400VXB-120PL-80	1MBI1400VXB-120PH-80

1MBI650VXA-170EL-50	1MBI650VXA-170EH-50
1MBI650VXA-170EL-80	1MBI650VXA-170EH-80
1MBI650VXA-170EL-54	1MBI650VXA-170EH-54
1MBI1000VXB-170EL-50	1MBI1000VXB-170EH-50
1MBI1000VXB-170EL-80	1MBI1000VXB-170EH-80
1MBI1000VXB-170EL-54	1MBI1000VXB-170EH-54
1MBI1400VXB-170PL-50	1MBI1400VXB-170PH-50
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1MBI1400VXB-170PL-80	1MBI1400VXB-170PH-80

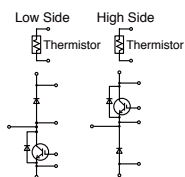
Chopper



M271



M272



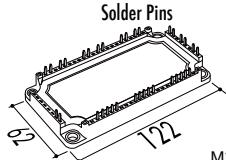
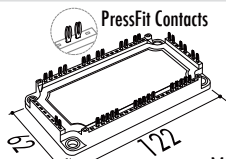
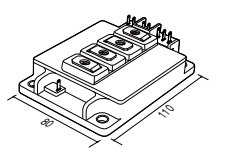
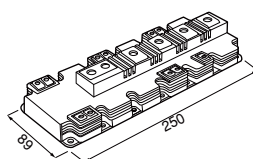
注 1 : “-54” : V_{sat} 及び V_F のランクをラベルに表示

注 2 : “-80” : “-54” に対して高熱伝導体の TIM (Thermal-Interface-Material) をモジュールベース面に塗布。

注 3 : PrimePACK™ は Infineon Technologies 社の登録商標です。

注 4 : *1 : 逆並列接続ダイオードの電流定格は 120A です。Boost/Buck chopper 回路にのみ適用願います。

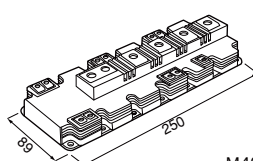
Advanced T-type NPC 3-level Modules

			600V		1200V		1700V	
	mm	Ic	V series	RB-IGBT	V series	RB-IGBT	V series	RB-IGBT
3 Phase With NTC, solder pins	 M1203	50A			12MBI50VN-120-50	600V		
		75A			12MBI75VN-120-50	600V		
		100A			12MBI100VN-120-50	600V		
3 Phase With NTC, press fit pins	 M1202	50A			12MBI50VX-120-50	600V		
		75A			12MBI75VX-120-50	600V		
		100A			12MBI100VX-120-50	600V		
1 Phase	 M403	220A					4MBI220VG-170R2-50	1200V
		300A			4MBI300VG-120R-50	600V		
		340A			4MBI300VG-120R1-50	900V		
		400A	4MBI400VG-060R-50	600V	4MBI340VF-120R-50	600V		
		450A			4MBI400VF-120R-50*1	600V		
					4MBI450VF-120RD-50*2*3	600V		
1 Phase	 M404	450A			4MBI450VB-120R1-50	900V	4MBI450VB-170R2-50	1200V
		600A			4MBI450VB-120R1-60	900V	4MBI450VB-170R2-60	1200V
		650A					4MBI600VB-170R2-50	1200V
		900A			4MBI600VB-170R2-60		4MBI600VB-170R2-60	1200V
					4MBI650VB-120R1-50	900V		
					4MBI650VB-120R1-60	900V		
					4MBI900VB-120R1-50	900V		
					4MBI900VB-120R1-60	900V		
					4MBI900VB-120RA-50	600V		
					4MBI900VB-120RA-60	600V		

注：RB-IGBT は逆阻止 (Reverse-Blocking) IGBT の略で、逆方向 (エミッタ - コレクタ間) の耐圧を持った素子

*1: UPS, PCS インバータ専用 *2: UPS コンバータ専用 *3: 開発中

I-type NPC 3-level Module

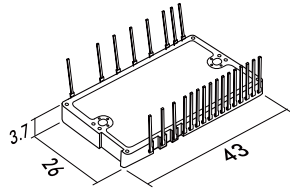
			600V		1200V		1700V	
	mm	Ic	V series		V series		V series	
1 Phase	 M404	600A			4MBI600VC-120-50			
					4MBI600VC-120-60			

Small IPM (Intelligent Power Modules)

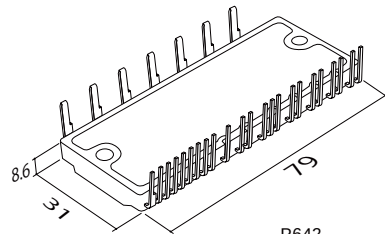
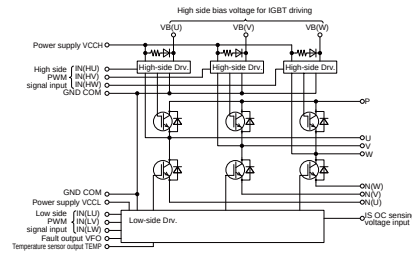
Built-in protection functions

P-side fault status output (Alarm)
N-side fault status output (Alarm)
Under voltage protection (self shutdown)
Over current protection (self shutdown)
Overheating protection (self shutdown)
Temperature sensor output (Vtemp, out)

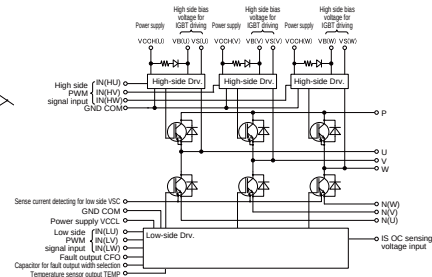
mm



P633A



P642



Small IPM with High Voltage Driver-IC without Brake-Chopper

600 / 650V



X series

Ic	10A	15A	20A	30A	50A	75A
6MBP10XSA060-50	✓	—	✓	✓	—	—
6MBP15XSA060-50	—	—	—	—	—	—
6MBP20XSA060-50	—	—	—	—	—	—
6MBP30XSA060-50	—	—	—	—	—	—
6MBP10XSC060-50	—	—	—	—	—	—
6MBP15XSC060-50	—	—	—	—	—	—
6MBP20XSC060-50	—	—	—	—	—	—
6MBP30XSC060-50	—	—	—	—	—	—
6MBP50XTA065-50	—	—	—	—	—	—
6MBP75XTA065-50	—	—	—	—	—	—
6MBP50XTC065-50	—	—	—	—	—	—
6MBP75XTC065-50	—	—	—	—	—	—

Built-in protection functions

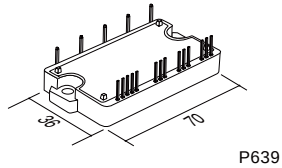
P-side fault status output (Alarm)
N-side fault status output (Alarm)
Under voltage protection (self shutdown)
Over current protection (self shutdown)
Overheating protection (self shutdown)

IPM (Intelligent Power Modules)

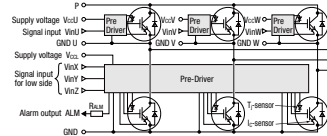
mm

Without
Brake-Chopper

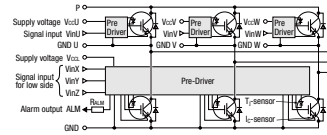
With
Brake-Chopper



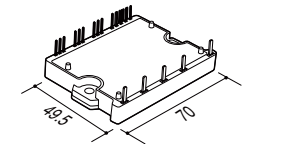
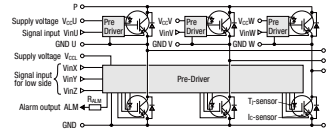
P639



• 6MBP□XAA□-50

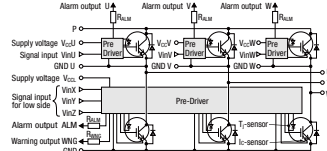


• 6MBP□VAA□-50

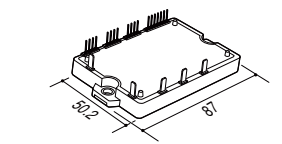
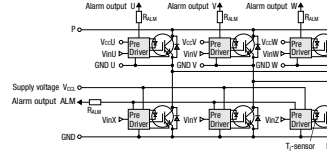


P629

• 6MBP□XBA□-50

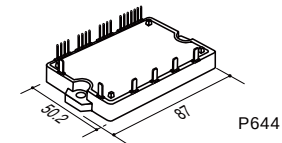
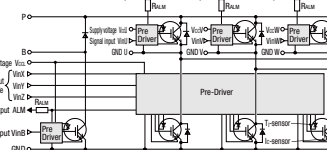


• 6MBP□VBA□-50



P626

• 7MBP□XJA□-50



P644

	650V	600V	1200V
	X series	V series	X series
Ic			
10A			6MBP10XRHA120-50*
20A	6MBP20XRHA065-50*		
30A	6MBP30XRHA065-50*		
10A			
15A			
20A		6MBP20VAA60-50	
25A			6MBP25XAA120-50*
30A		6MBP30VAA60-50	6MBP25VAA120-50
35A			6MBP35XAA120-50*
50A	6MBP50XAA065-50*	6MBP50VAA60-50	
75A	6MBP75XAA065-50*		
25A			6MBP25XBA120-50*
35A			6MBP35XBA120-50*
50A	6MBP50XBA065-50*	6MBP50VBA060-50	6MBP50VBA120-50
75A	6MBP75XBA065-50*	6MBP75VBA060-50	
100A	6MBP100XBA065-50*		
25A			7MBP25XJA120-50*
35A			7MBP35XJA120-50*
50A	7MBP50XJA065-50*		
75A	7MBP75XJA065-50*		

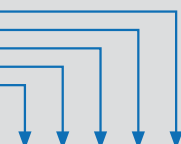
* 開發中

Built-in protection functions

P-side fault status output (Alarm)
N-side fault status output (Alarm)
Under voltage protection (self shutdown)
Over current protection (self shutdown)
Overheating protection (self shutdown)

IPM (Intelligent Power Modules)

mm



|--|

* 開発中

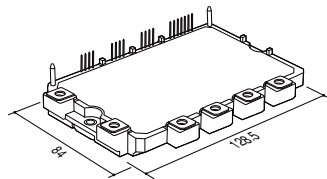
Built-in protection functions

P-side fault status output (Alarm)
N-side fault status output (Alarm)
Under voltage protection (self shutdown)
Over current protection (self shutdown)
Overheating protection (self shutdown)

IPM (Intelligent Power Modules)

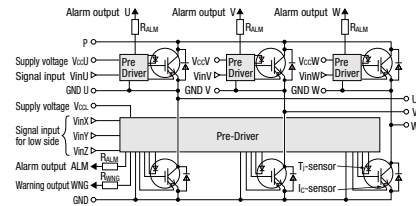
Without Brake-Chopper

With Brake-Chopper

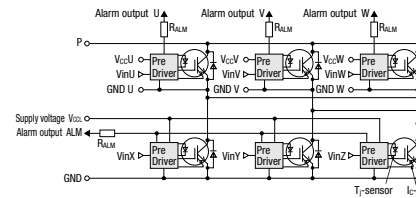


P630

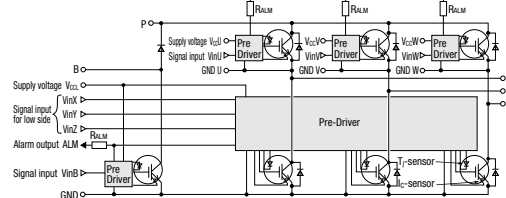
- 6MBP□XDA□-50
- 6MBP□XDN□-50



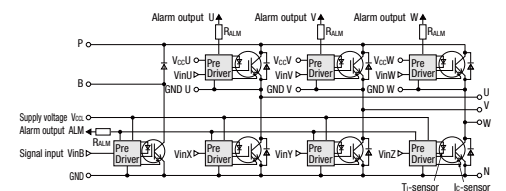
- 6MBP□VDA□-50
- 6MBP□VDN□-50



- 7MBP□XDA□-50
- 7MBP□XDN□-50



- 7MBP□VDA□-50
- 7MBP□VDN□-50



	650V	600V	1200V
	X series	V series	X series
Ic			
25A			6MBP25XDA120-50*
35A			6MBP35XDA120-50*
50A	6MBP50XDA065-50*	6MBP50VDA060-50	6MBP50XDA120-50*
			6MBP50XDN120-50*
75A	6MBP75XDA065-50*	6MBP75VDA060-50	6MBP75XDA120-50*
			6MBP75XDN120-50*
100A	6MBP100XDA065-50*	6MBP100VDA060-50	6MBP100XDA120-50*
	6MBP100XDN065-50*	6MBP100VDN060-50	6MBP100XDN120-50*
150A	6MBP150XDA065-50*	6MBP150VDA060-50	6MBP150XDA120-50*
	6MBP150XDN065-50*	6MBP150VDN060-50	6MBP150XDN120-50*
200A	6MBP200XDA065-50*	6MBP200VDA060-50	
	6MBP200XDN065-50*	6MBP200VDN060-50	
250A	6MBP250XDA065-50*		
	6MBP250XDN065-50*		
25A			7MBP25XDA120-50*
35A			7MBP35XDA120-50*
50A	7MBP50XDA065-50*	7MBP50VDA060-50	7MBP50XDA120-50*
			7MBP50XDN120-50*
75A	7MBP75XDA065-50*	7MBP75VDA060-50	7MBP75XDA120-50*
			7MBP75XDN120-50*
100A	7MBP100XDA065-50*	7MBP100VDA060-50	7MBP100XDA120-50*
	7MBP100XDN065-50*	7MBP100VDN060-50	7MBP100XDN120-50*
150A	7MBP150XDA065-50*	7MBP150VDA060-50	7MBP150XDA120-50*
	7MBP150XDN065-50*	7MBP150VDN060-50	7MBP150XDN120-50*
200A	7MBP200XDA065-50*	7MBP200VDA060-50	
	7MBP200XDN065-50*	7MBP200VDN060-50	
250A	7MBP250XDA065-50*		
	7MBP250XDN065-50*		

注 1 : 本ページで VDN, XDN の付く型式は高放熱特性

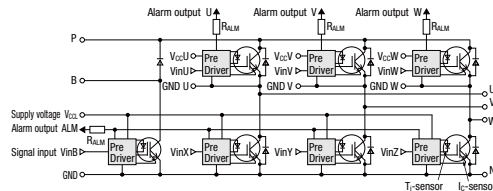
* 開発中

Without Brake-Chopper



- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)

- 6MBP XEN-50

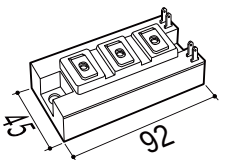
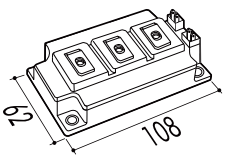
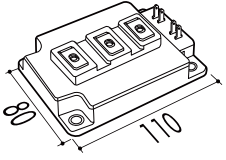
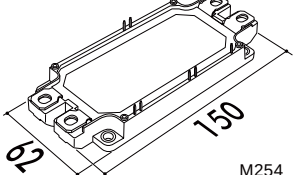
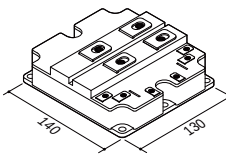
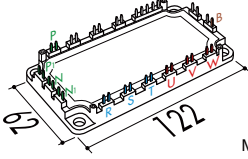


✓ ✓ ✓ ✓ ✓

[illegible]

★ 開発中

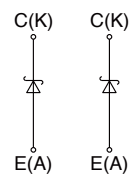
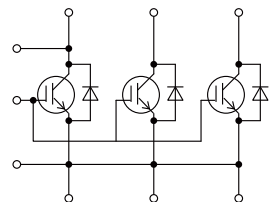
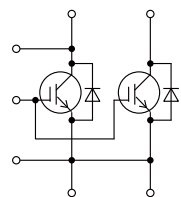
Hybrid SiC Modules

	mm	Ic	600V	1200V	1700V
			V series	V series	V series
2-Pack	 45 92 M274	200A		2MSI200VAB-120-53	
	 29 108 M276	200A 300A		2MSI300VAH-120C-53	2MSI200VWAH-120-53* 2MSI300VWAH-120-53*
	 80 110 M277	400A			2MSI400VAE-170-53
	 92 150 M254	300A 450A 550A 600A		2MSI300VAN-120-53 2MSI450VAN-120-53 2MSI600VAN-120-53	2MSI300VWAN-120-53* 2MSI550VAN-170-53*
	 140 130 M278	1200A			2MSI1200VAT-170EC *1*
PIM	 29 122 M712	35A 50A 75A 100A	7MBR50VB060S-50 7MBR75VB060S-50 7MBR100VB060S-50	7MBR35VB120S-50 7MBR50VB120S-50	

*1: 低スイッチング損失タイプ

* 開発中

Diode	1-Pack
-------	--------



mm

[illegible]

* 開発中

Discrete IGBT

[illegible]

シリーズ別推奨動作周波数

0~	~10	~20	~30	~40	~50	~60	~70	~80	~90	~100	kHz
V/RB											
High speed V											
	XS										
	High speed W										

Rectifier Diode

		Ultra Fast Recovery Diodes		Soft Recovery Fast Recovery Diodes	
		600V	650V	1200V	
TO-220	I/F	15A FDRP15S60L			
		25A FDRP25S60L			
TO-247-P2	35A				
	75A				
	40A				FDRW40C120J
	50A		FDRW50C60L		
TO-247-2L-P2	60A				FDRW60C120J
	70A		FDRW70C60L		
	60A			FDRW60T65L	
	75A FDRW75T60L				
TO-247-(2pin)-P2	12A			FDRW12S120J	
	15A FDRW15S60L				
	20A			FDRW20S120J	
	25A FDRW25S60L				
	30A			FDRW30S120J	
	35A FDRW35S60L				

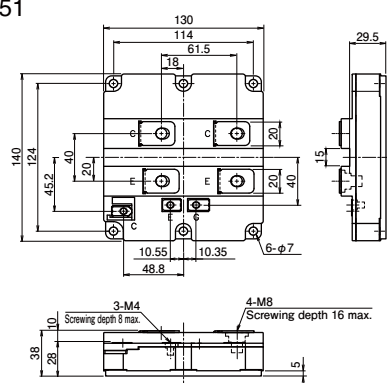
SiC-SBD



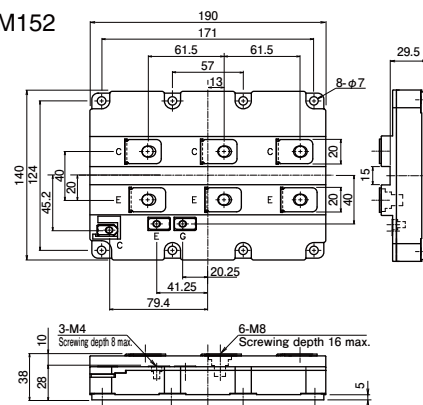
		600V		1200V	
T-Pack(s)	I/F	10A FDCC10S65			
	20A		FDCC20C65		
	25A FDCC25S65				
TO-220-2	10A	FDCP10S65			
	25A FDCP25S65				
TO-220	20A		FDCP20C65		
TO-220F	20A		FDCA20C65		
TO-220F-2	10A	FDCA10S65			
	18A			FDCA18S120	
	25A FDCA25S65				
TO-247	10A	FDCY10S65			
	18A			FDCY18S120	
	20A		FDCY20C65		
	25A FDCY25S65				
	36A				FDCY36C120
	50A		FDCY50C65		
TO-247-2L-P2	18A			FDCW18T120	

外形図 mm

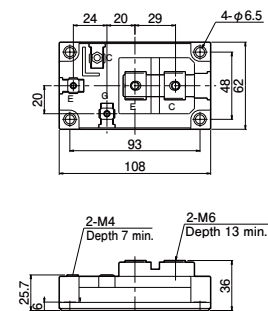
M151



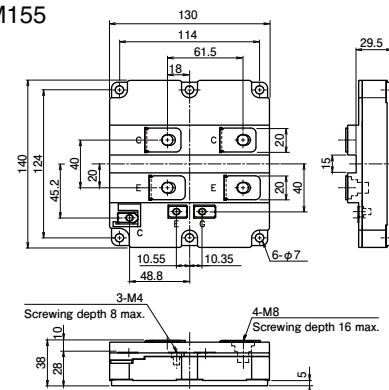
M152



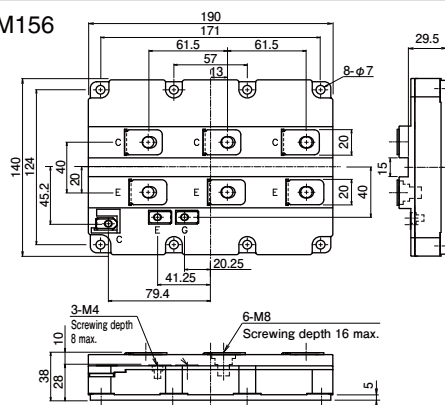
M153



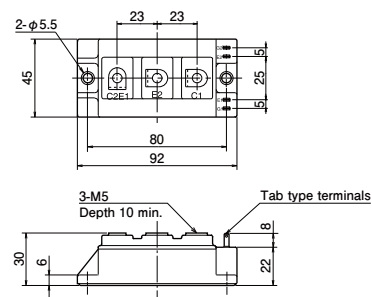
M155



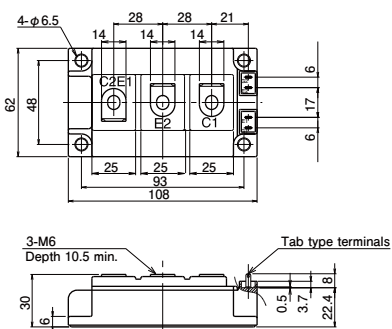
M156



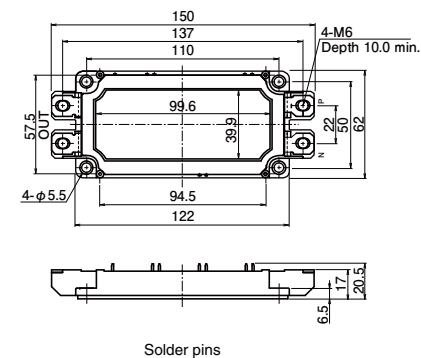
M233



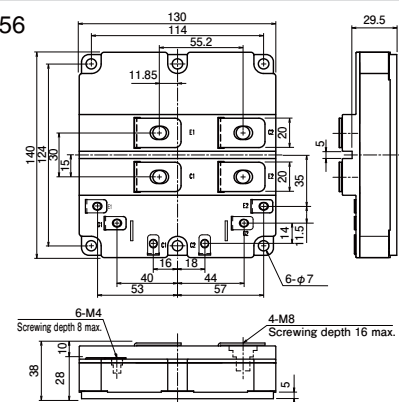
M249



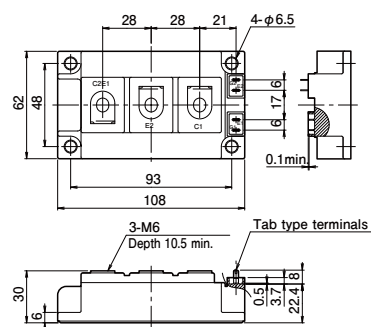
M254



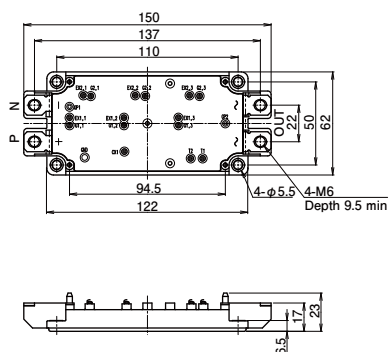
M256



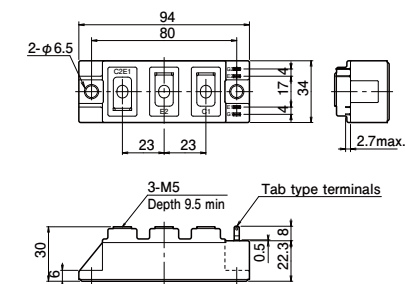
M259



M260

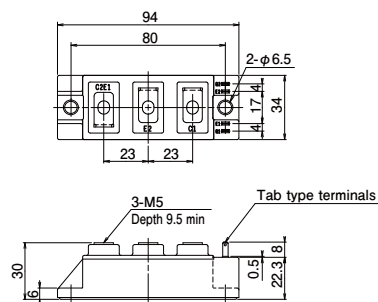


M262

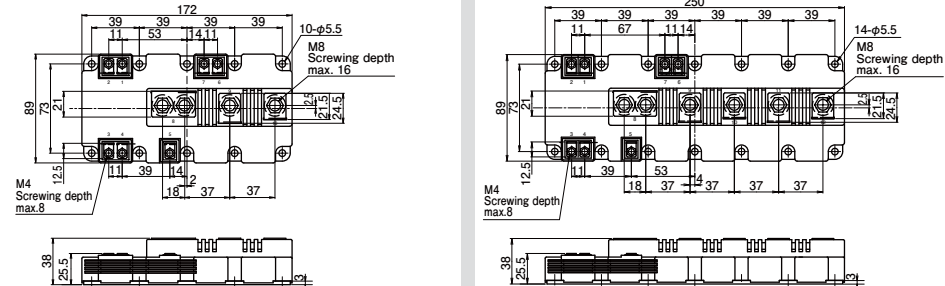


外形图 mm

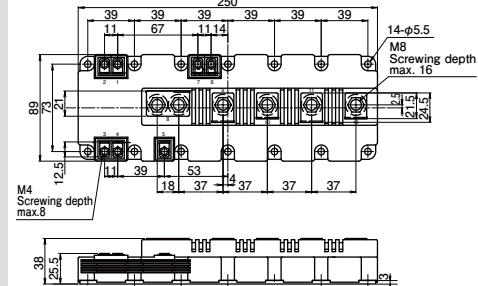
M263



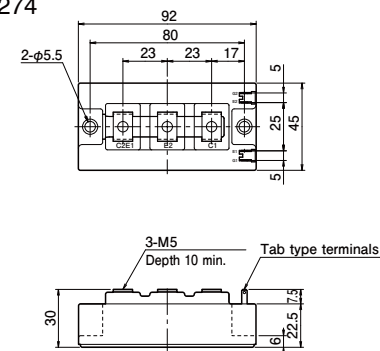
M271



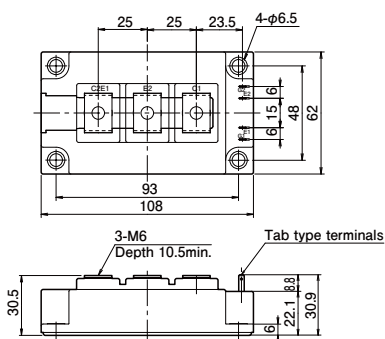
M272



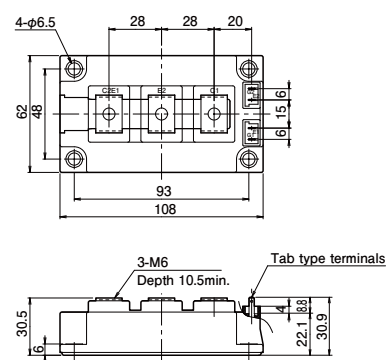
M274



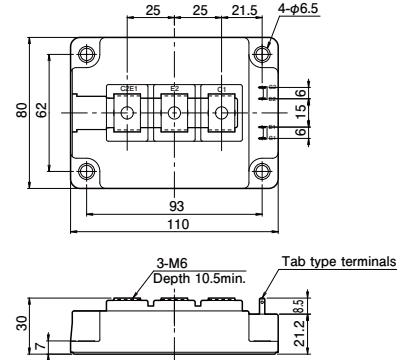
M275



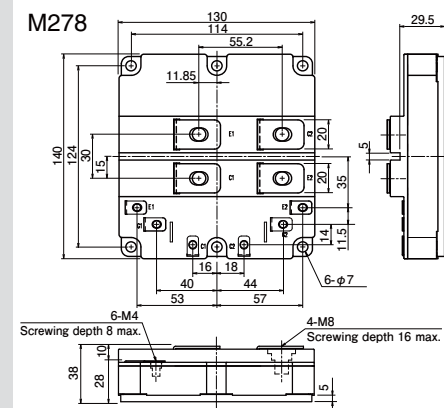
M276



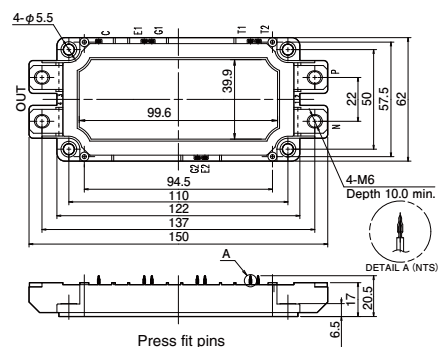
M277



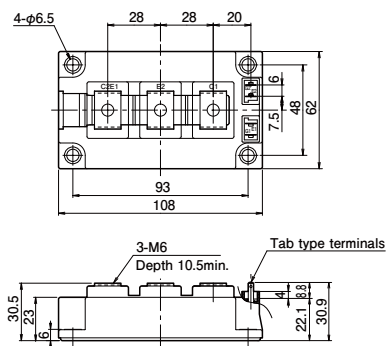
M278



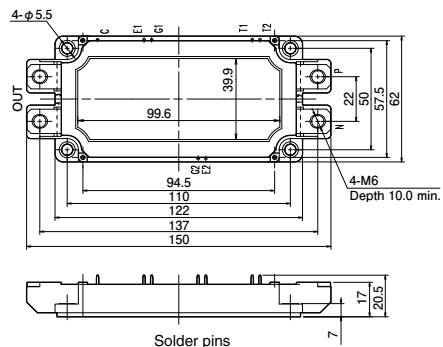
M282



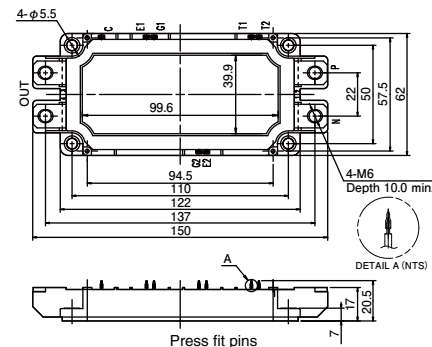
M283



M285

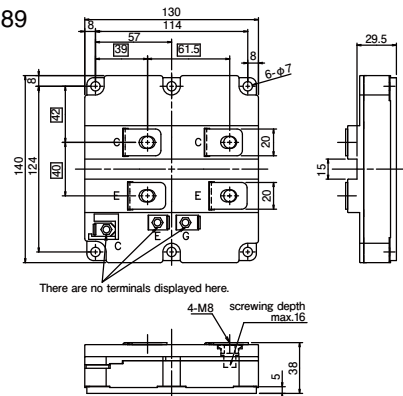


M286

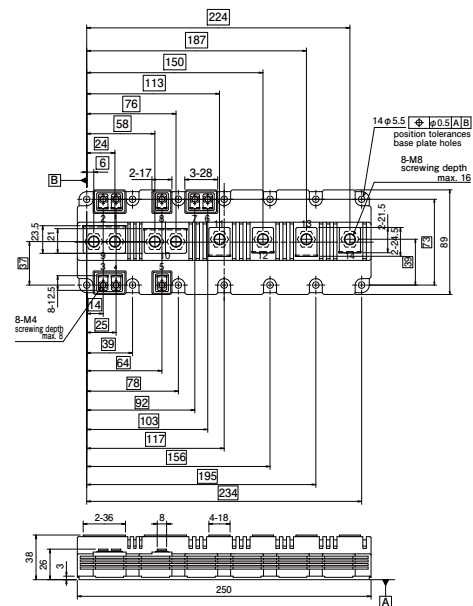


外形图 mm

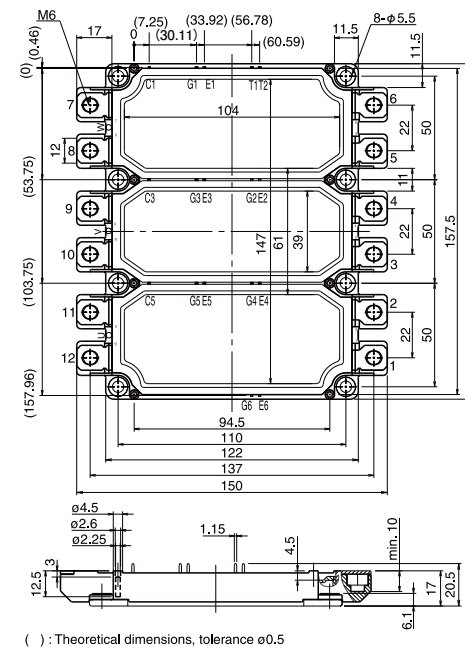
M289



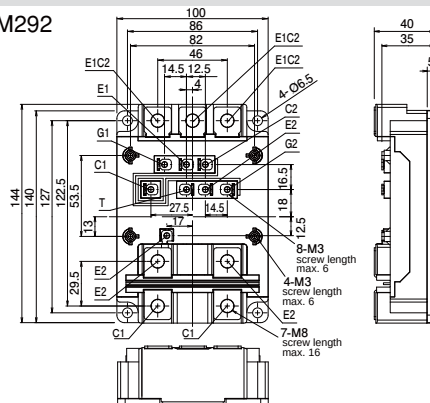
M291



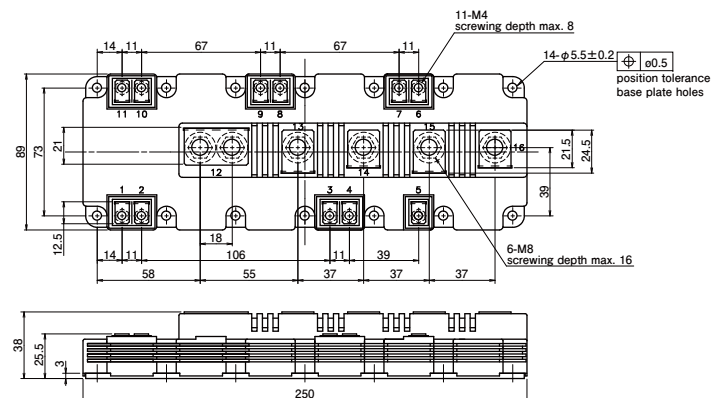
M629



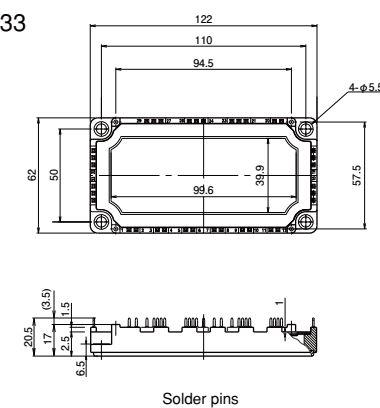
M292



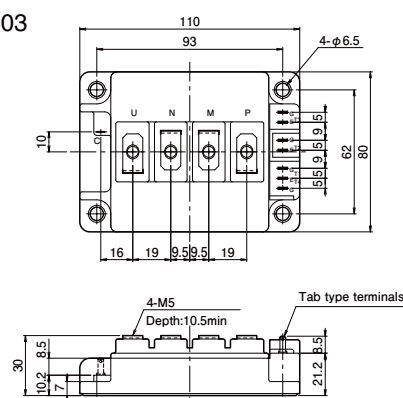
M404



M633

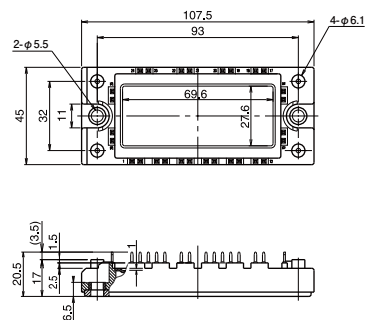


M403



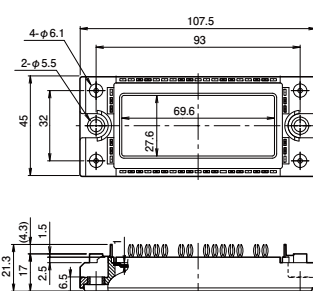
外形図 mm

M636



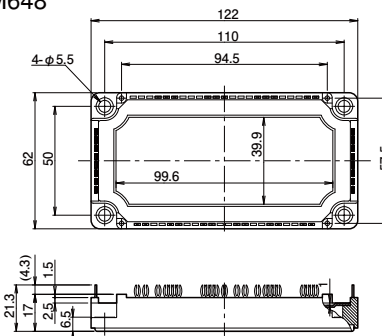
Solder pins

M647



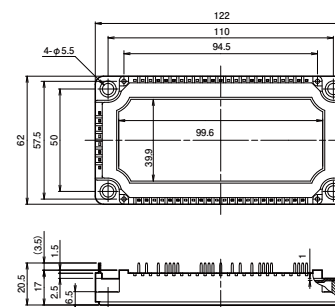
Press fit pins

M648



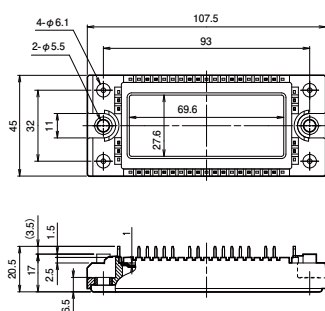
Press fit pins

M668



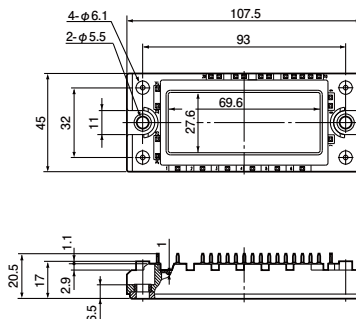
Solder pins

M669



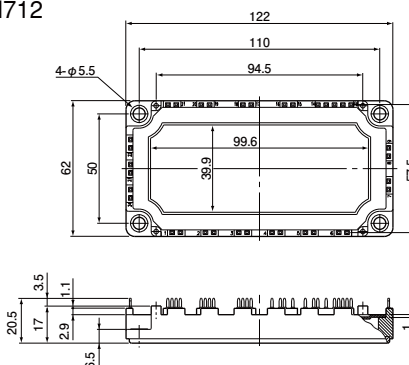
Solder pins

M711



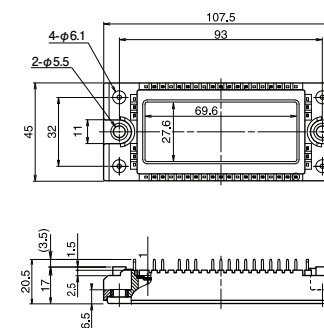
Solder pins

M712



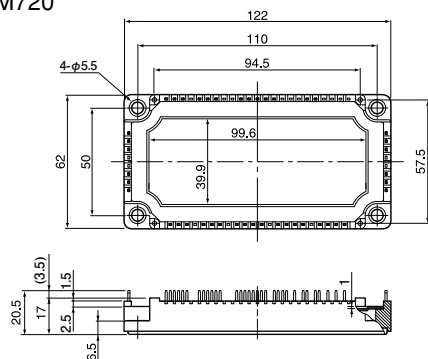
Solder pins

M719



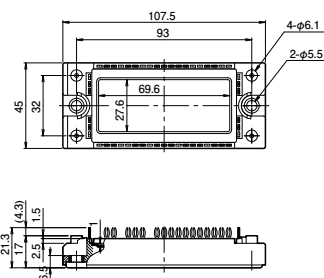
Solder pins

M720



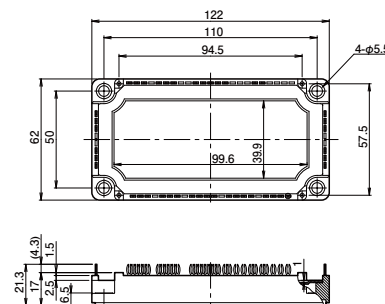
Solder pins

M721



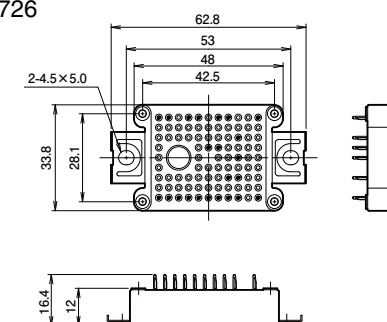
Press fit pins

M722



Press fit pins

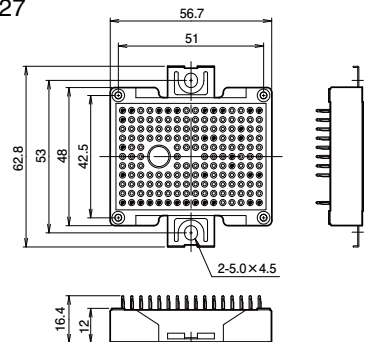
M726



Press fit pins

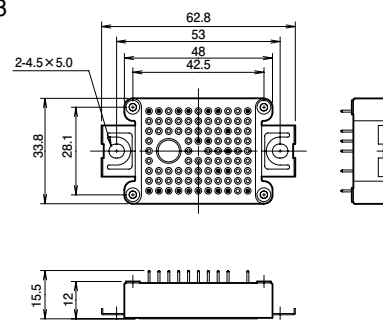
外形图 mm

M727



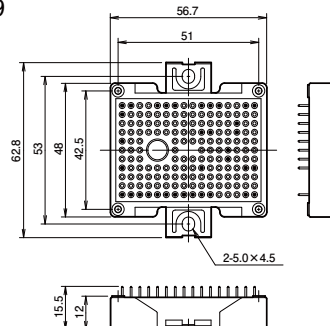
Press fit pins

M728



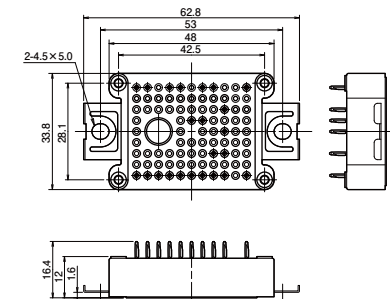
Solder pins

M729



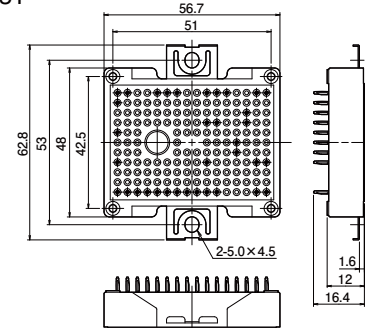
Solder pins

M730



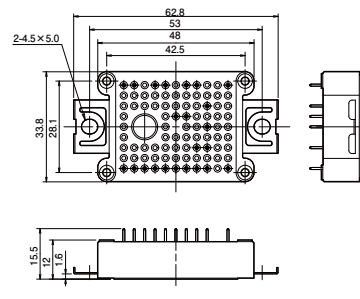
Press fit pins

M731



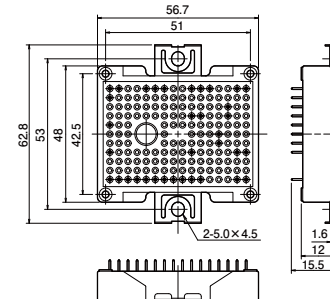
Press fit pins

M732



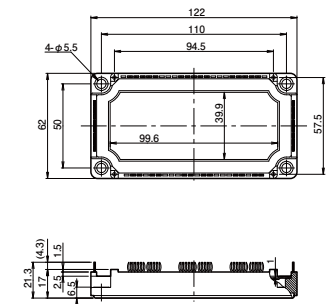
Solder pins

M733



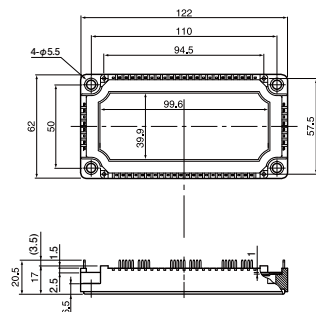
Solder pins

M1202



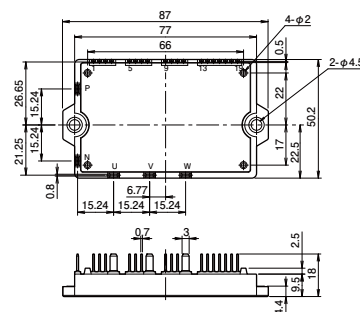
Press fit pins

M1203

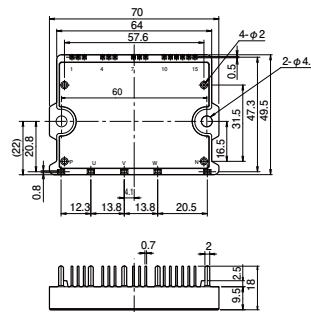


Solder pins

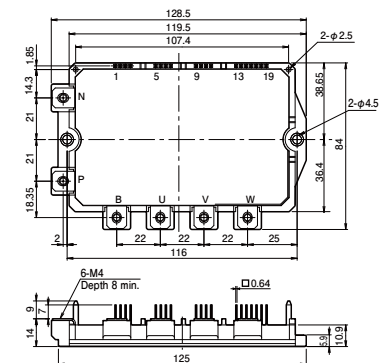
P626



P629

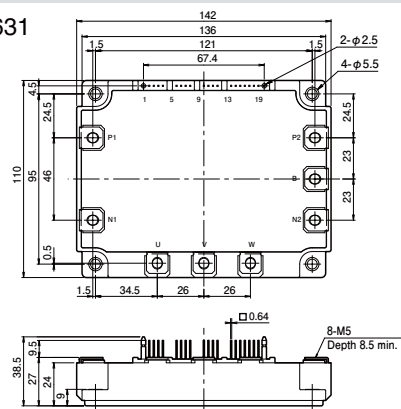


P630

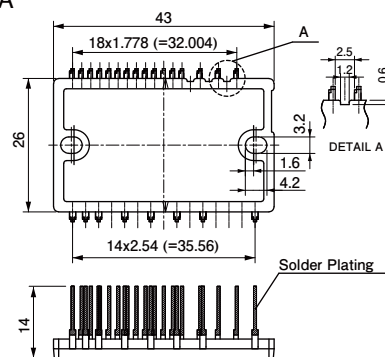


外形図 mm

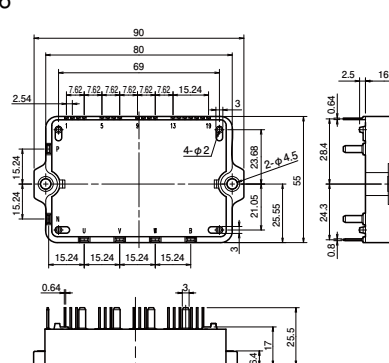
P631



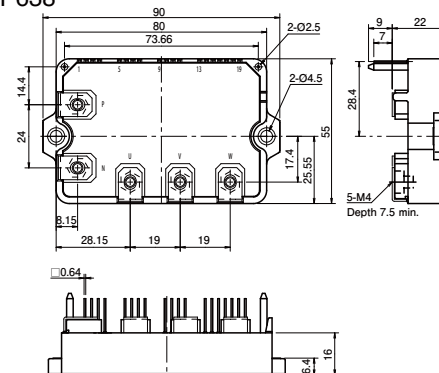
P633A



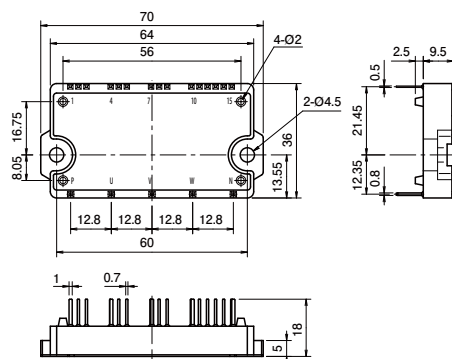
P636



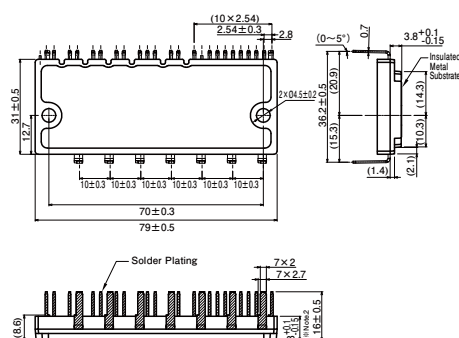
P638



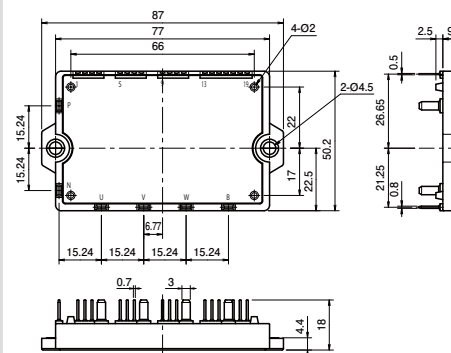
P639



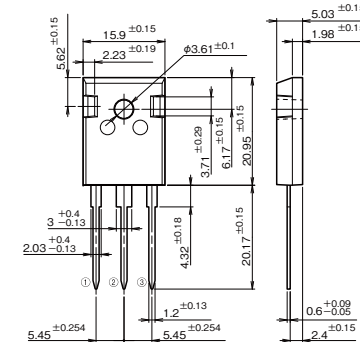
P642



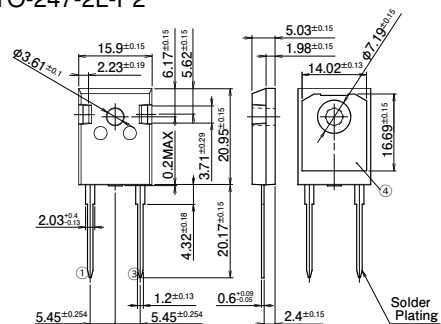
P644



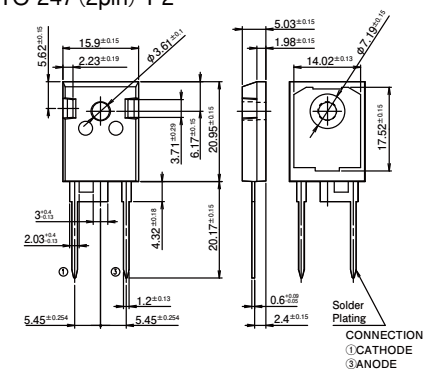
TO-247-P/TO-247-P2



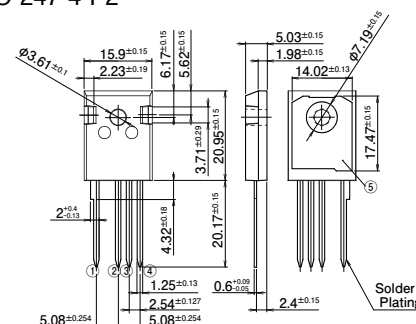
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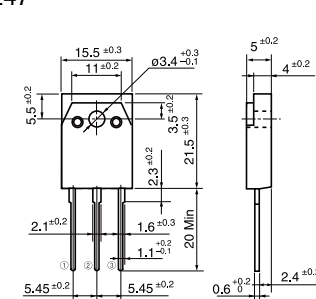
TO-247 (2pin) -P2



TO-247-4-P2

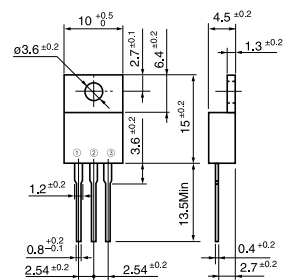


TO-247

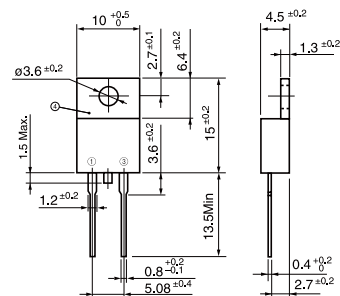


外形図 mm

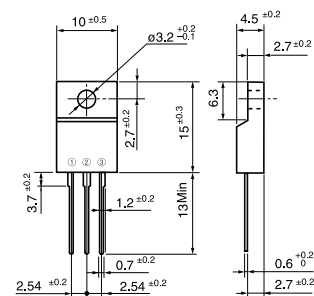
TO-220



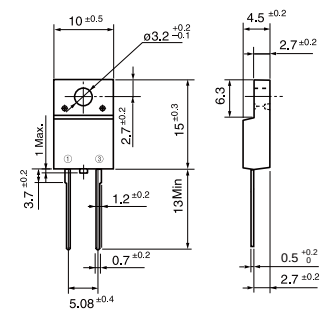
TO-220-2



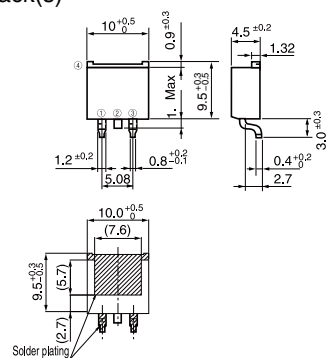
TO-220F



TO-220F-2



T-Pack(s)



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