

“全SiC”功率模块

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P.135

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● “全SiC”功率模块一览表

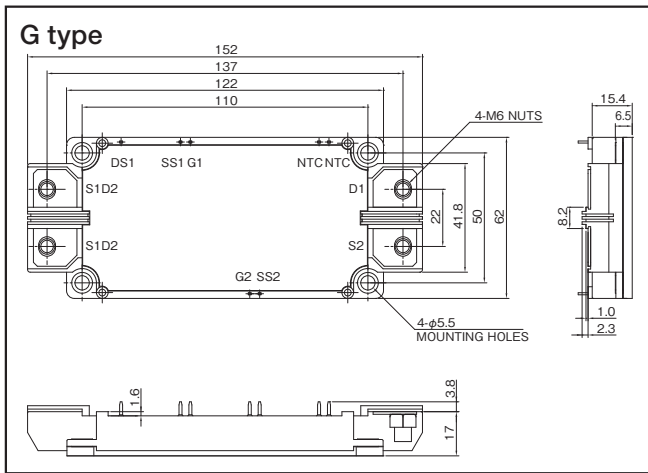
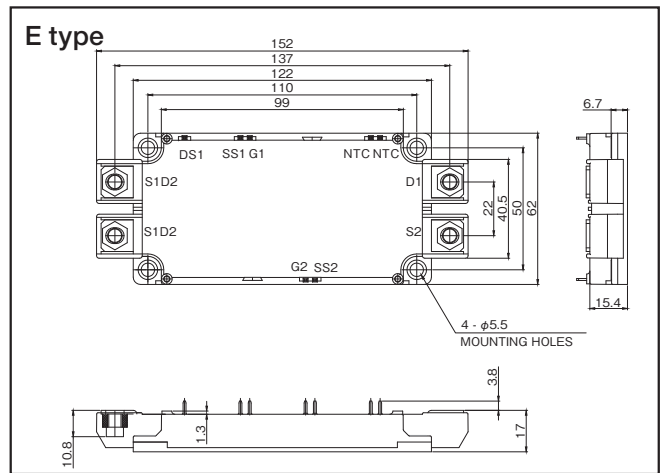
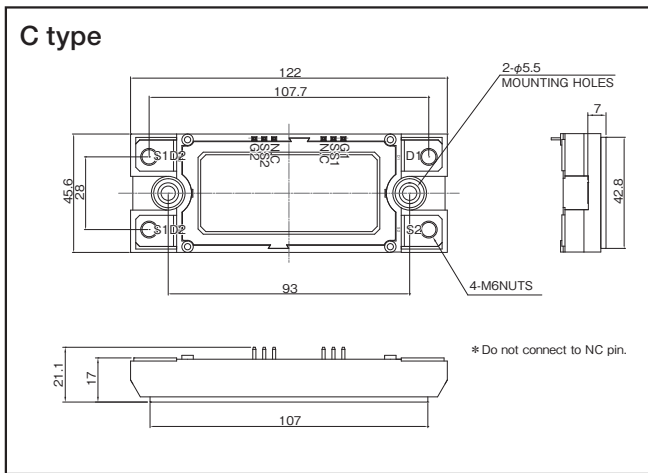
V _{DSS} (V)	R _{DS (on)} (mΩ)	Case type					
							
		C type		E type		G type	
1,200	34	BSM080D12P2C008	9				
	20	BSM120D12P2C005 BSM120C12P2C201	10 1				
	12.8	BSM180D12P2C101	8				
	12.2			BSM180C12P2E202 BSM180D12P2E002	3 15		
	10	BSM180D12P3C007 BSM180C12P3C202	11 2				
	7.3			BSM300D12P2E001	16		
	6.3			BSM300C12P3E201 BSM300C12P3E301	4 7		
	5.75					BSM400D12P2G003	18
	5.55			BSM300D12P3E005	17		
	4.5					BSM400D12P3G002 BSM400C12P3G202	19 5
	4					BSM300D12P4G101	12
	3.3					BSM450D12P4G102	13
	3					BSM600D12P3G001 BSM600C12P3G201	20 6
	2.7					BSM600D12P4G103	14
1,700	8			BSM250D17P2E004	21		

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No.	Part No.	Absolute Maximum Ratings (T _J =25°C)						Internal Circuit	
		V _{DSS} (V)	R _{DS(on)} (mΩ)	I _D (A)	T _J (°C)	T _{stg} (°C)	Visol (V) AC 1min		Package
升降压斩波型									
1	BSM120C12P2C201	1,200	20	120	-40 to +175	-40 to +125	2,500	C type	
2	BSM180C12P3C202		10	180	-40 to +175	-40 to +125	2,500	E type	
3	BSM180C12P2E202		12.2	180	-40 to +175	-40 to +125	2,500		
4	BSM300C12P3E201		6.3	300	-40 to +175	-40 to +125	2,500		
5	BSM400C12P3G202		4.5	400	-40 to +175	-40 to +125	2,500		
6	BSM600C12P3G201		3	600	-40 to +175	-40 to +125	2,500	G type	
7	BSM300C12P3E301		6.3	300	-40 to +175	-40 to +125	2,500	E type	
半桥型									
8	BSM180D12P2C101	1,200	12.8	180	-40 to +175	-40 to +125	2,500	C type	
9	BSM080D12P2C008		34	80	-40 to +175	-40 to +125	2,500	E type	
10	BSM120D12P2C005		20	120	-40 to +175	-40 to +125	2,500		
11	BSM180D12P3C007		10	180	-40 to +175	-40 to +125	2,500		
12	BSM300D12P4G101		4	300	-40 to +175	-40 to +125	2,500	G type	
13	BSM450D12P4G102		3.3	450	-40 to +175	-40 to +125	2,500		
14	BSM600D12P4G103		2.7	600	-40 to +175	-40 to +125	2,500		
15	BSM180D12P2E002		12.2	180	-40 to +175	-40 to +125	2,500	E type	
16	BSM300D12P2E001		7.3	300	-40 to +175	-40 to +125	2,500		
17	BSM300D12P3E005		5.55	300	-40 to +175	-40 to +125	2,500		
18	BSM400D12P2G003		5.75	400	-40 to +175	-40 to +125	2,500	G type	
19	BSM400D12P3G002		4.5	400	-40 to +175	-40 to +125	2,500		
20	BSM600D12P3G001		3	600	-40 to +175	-40 to +125	2,500		
21	BSM250D17P2E004	1,700	8	250	-40 to +175	-40 to +125	3,400	E type	

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●外形尺寸图 (单位：mm)



●品名构成说明

B	S	M	1	2	0	D	1	2	P	2	C	0	0	5
①	②	③	④	⑤	⑥	⑦								

- ① SiC功率模块
- ② 额定电流
- ③ C → 含1个电路
D → 含2个电路
- ④ 耐压
例 12 → 1,200V
17 → 1,700V
- ⑤ 器件类型
P2 使用第二代SiC MOSFET
P3 使用第三代SiC MOSFET
P4 使用第四代SiC MOSFET
- ⑥ 规格类型
- ⑦ 追加型号