

650V 6A SiC SBD 二极管

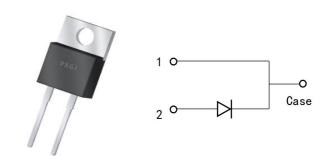
特点:

- ✔ 无反向恢复时间
- ✔ 正温度系数
- ✔ 高工作结温
- ✔ 响应速度快
- ✓ 无铅/符合 RoHS 标准

应用:

- ✔ 光伏逆变器、储能变流器
- ✓ 充电桩模块
- ✓ 电机驱动、车载 OBC
- ✓ 高压 DC/DC 变换器
- ✔ 开关电源

封装:



产品代码	封装形式				
PXSD06065T1	TO220-2				

Maximum Ratings (Tc=25°C unless otherwise noted)

Symbol	Paran	Value	Unit	
V _{RRM}	Repetitisve peak reverse voltage	650	V	
I_{F}	Continuous forward current	6	А	
I_{FSM}	Non-repetitive forward surge current	Tc=25°C , t_p =10ms,Half sine pulse	58	А
∫i ² dt	i ² t value	Tc=25°C , t_p =10ms	16	A ₂ S
		Tc=25℃	107	W
P _{tot}	Power Dissipation	Tc=110℃	46	W
		Tc=150°C	17	W
T _j , T _{stg}	Operating and Storage Temperature	-55 to	°C	
- y - Stg	, 5	+175	Ŭ	

Electrical Characteristics (Tc=25°C unless otherwise noted)

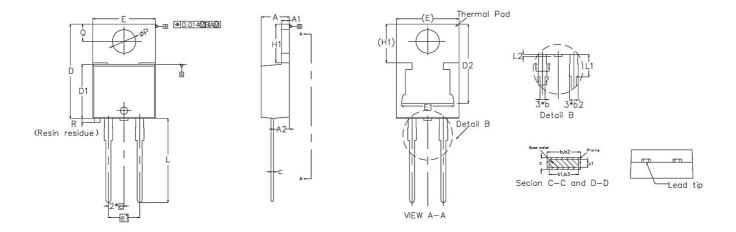
Symbol	D	To at O and Hit area		I linit		
	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
V_{DC}	DC blocking voltage		650	-	-	V
V_{F}	Forward voltage	I _F =6A, Tc=25℃	-	1.36	1.5	V
I_R	Reverse current	V _R =650V, Tc=25℃	-	0.8	40	uA
Q_{C}	Total capacitive charge	V _R =400V	-	20	-	nC
С		VR=1V, f=1MHZ	-	350	-	рF
	Total capacitance	V_R =200V, f=1MHZ	-	45	-	рF
		VR=400V, f=1MHZ	-	35	-	рF
E _C	Capacitance Stored Energy	V _R =400V	-	3.2	-	uJ

Thermal Characteristics

Symbol	Doromotor	Va	lue	Unit	Note
	Parameter	Тур.	Max.	Offic	
$R_{th(j-c)}$	Thermal resistance (Junction to case)	14	-	°C/W	Figure 8

Package Dimensions

To -220 -2



SYMBOL	MILLIMETERS		NOTES	SYMBOL	MILLIMETERS			NOTES		
	Normal	MIN.	MAX.	NOIES		3 HVIDUL	Normal	MIN.	MAX.	NOTES
Α	4.55	4.44	4.65			E1	8.57	8.25	8.89	
A1	1.27	1.14	1.39			е	2.54	2.41	2.67	
A2	2.60	2.54	2.79			e1	5.08	4.95	5.20	
b	0.85	0.69	0.94			H1	6.20	6.09	6.40	
b1	0.83	0.38	0.97			L	13.60	13.52	14.00	
b2	1.33	1.20	1.45			L1	3.60	3.56	3.80	
b3	1.33	1.20	1.45			L2	_	0	0.35	
С	0.50	0.36	0.56			ØΡ	3.80	3.70	3.91	
c1	0.48	0.36	0.56			Q	2.80	2.62	2.87	
D	15.25	14.95	15.32			R			0.2	
D1	8.75	8.50	8.89							
D2	12.85	12.20	13.30							
E	10.18	10.11	10.40							

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