

Rev.A Jun.-2019

50V ~ 1000V 5.0A SMB

Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage 50 to1000V,Forward Current:5.0A ,SMB package.

RoHS 2011/65/EU

Glass Passivated Chip Junction, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. Halogen free product.

General purpose.

See Marking Instructions.

Absolute Maximum Ratings(Ta=25 ; )

@ f Parameter	... Z Symbol	f Rating							% y Unit
		S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	5.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	200							A
Typical Junction Capacitance at VR=4V f=1MHz	C <sub>j</sub>	40							pF
Typical Thermal Resistance <sup>1A</sup>	R <sub>JA</sub>	48							/W
	R <sub>JC</sub>	16							
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55~+150							

Note:

1)EP.C.B. mounted with 2.0 X 2.0" (5 X 5cm) copper pad areas.

Electrical Characteristics(Ta=25 ; )

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	D Rating							% y Unit
			S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =5.0A	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>a</sub> =25	10							A
		T <sub>a</sub> =125	100							A

Ō ? d • Ž ϕ / Electrical Characteristic Curve

Ø ≡ ) ϕ / Package Dimensions

, M y f / Marking Instructions



š WD t... • Ž Ć ( x / ) / : KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

<sup>a</sup> Ć y

- 1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
- 2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ » ] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260 r5 - Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type ß m ù ´	Units g m ô h					Dimension g m d Ê (unit ! mm <sup>3</sup> )		
	Units/Reel /   i	Reels/Inner Box   i / Ć	Units/Inner Box / Ć	Inner Boxes/Outer Box Ć / ±	Units/Outer Box / ±	Reel	Inner Box	Outer Box
SMB	3000	5	15000	5	75000	7 s x11	185X180X105	390X385X205

„ Æ y f / Notices