

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.

Table 1 / Absolute Maximum Ratings(Ta=25 °C ;)

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

Note:

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

Table 2 / Electrical Characteristics(Ta=25 °C ;)

Parameter Symbol	Symbol	Test Conditions	Rating							Unit
			S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	
Maximum Instantaneous Forward Voltage	V_F	$I_F=5.0A$	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	10							A
		$T_a=125$	100							A

Ō ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

, M y f / Marking Instructions

9 '

^a ¢ y
 9 ' y ° Z W A
 **** y ÿ D Z AÇ A k † v ã W A k e µ ¢ ã 4 Z W A

Note:

9 ' y Product Type Code
 **** y Lot No. Code kThe 1st means:YM Code kThe last 3 means:little Lot No
 Code

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

^ač y

- 10• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
- 20• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 30•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 ³)		
	Units/Reel / í	Reels/Inner Box í / ç	Units/Inner Box / ç	Inner Boxes/Outer Box ç / ±	Units/Outer Box / ±	Reel	Inner Boxç	Outer Box±
SMB	3000	5	15000	5	75000	7 s ×11	185X180X105	390X385X205

„Đ y f / Notices