

50V~1000V

5.0A SMB

RoHS

2011/65/EU

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 _{FAV 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

^ačy

- 10•Ä½“† 150½180 - kž• 60½90sec;
- 20•Q>“† 245 r5 - kž•4 Ò 5 r0.5sec;
- 30•D Nò i Ò 0 ,† 2½10 - /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