

Surface General Purpose Rectifier

Voltage 600~1000 V

Current

5 A

Features

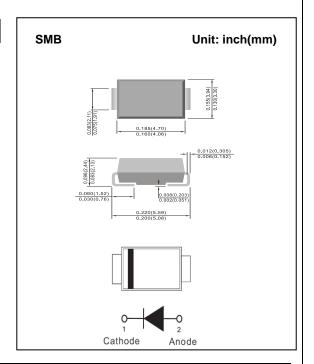
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : SMB package

Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.092 grams



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

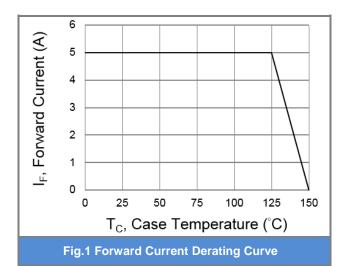
PARAMETER		SYMBOL	S5JB	S5KB	S5MB	UNIT
Maximum repetitive peak reverse voltage		Vrrm	600	800	1000	V
Maximum RMS voltage		VRMS	420	560	700	V
Maximum DC blocking voltage		VR	600	800	1000	V
Maximum average forward rectified current		lF(AV)	5			Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		İFSM	200			А
Maximum forward voltage at 5A		VF	1.15			V
Maximum dc reverse current at rated dc blocking voltage		lR	10			μА
Typical junction capacitance Measured at 1MHz and applied V _R =4V		Сл	35		pF	
Typical thermal resistance	(Note 1)	RθJA	135			
	(Note 2)	Rejc	11			°C/W
	(Note 2)	ReJL	14			
Operating junction temperature range		TJ	-55 to +150			°C
Storage temperature range		Тѕтс	-55 to +150			°C

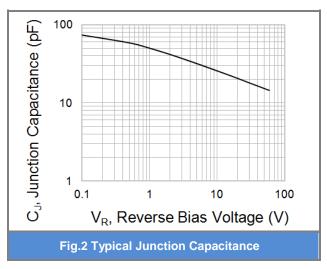
Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

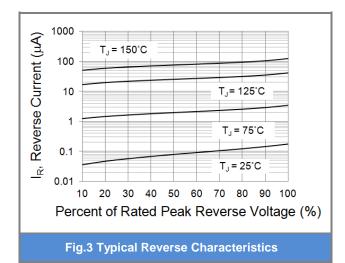
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

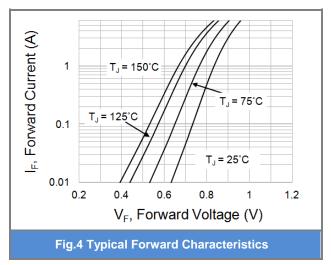


TYPICAL CHARACTERISTIC CURVES







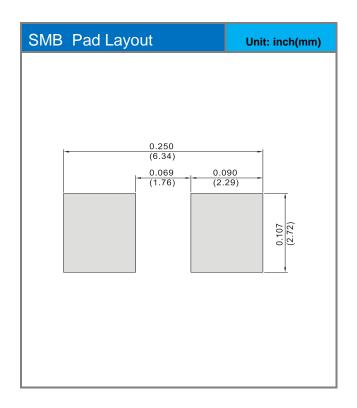




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
S5JB	SMB	0.8K pcs / 7" reel	S5JB
S5JB	SMB	3K pcs / 13" reel	S5JB
S5KB	SMB	0.8K pcs / 7" reel	S5KB
S5KB	SMB	3K pcs / 13" reel	S5KB
S5MB	SMB	0.8K pcs / 7" reel	S5MB
S5MB	SMB	3K pcs / 13" reel	S5MB

Mounting Pad Layout



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