

Surface General Purpose Rectifier

Voltage 600~1000 V Curr

Current 5

Features

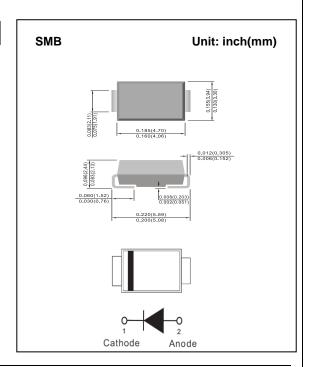
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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 VR=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

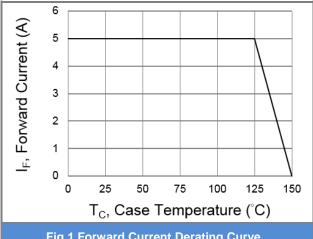
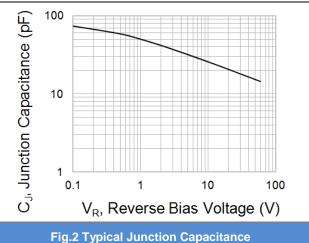


Fig.1 Forward Current Derating Curve



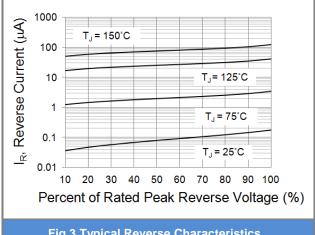


Fig.3 Typical Reverse Characteristics

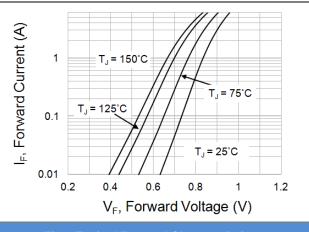


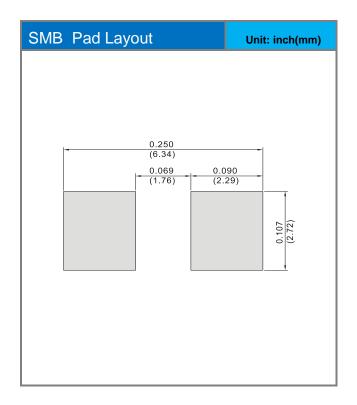
Fig.4 Typical Forward Characteristics



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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