Low forward voltage Schottky Barrier Rectifier

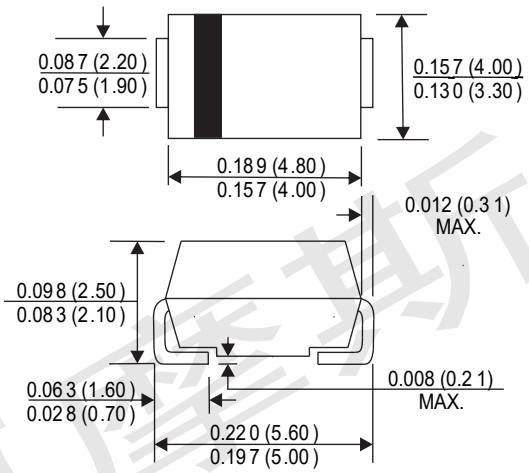
SS56BL 60 V 5.0A

RoHS COMPLIANT

Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering:260℃ MAX at 10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC SMB molded plastic body

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number Parameter Marking code		Symbols	SS56BL	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	60	V
Maximum RMS Voltage		V_{RMS}	42	V
Maximum DC Blocking Voltage		V_{DC}	60	V
Maximum Average Forward Rectified Current. Lead Length @ Tj=25℃		I(AV)	5.0	A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		IFSM	80	A
Maximum Forward Voltage @I(AV)		VF	0.50	V
Maximum DC reverse current at rated DC blocking voltage per	TJ=25℃	IR	50	uA
	TJ=105℃		500	
Typical Thermal Resistance [1]		$R_{\theta}JA$ $R_{\theta}JL$	60 22	℃/W
Operating Temperature Range T_J		T_J	-55 to +150	℃
Storage Temperature Range T_{STG}		TSTG	-55 to +150	℃

Note:

1.Unit mounted on 16 mm*16 mm*1.6 mm 1oz/ft2 glass epoxy PCB board,pad per pin with 2*2mm solder pad areas 2.Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

3.The typical data above is for reference only.

※This product The above data sheet typical data meet the Mentioned standards,designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMB DO-214AA	F1	about 0.096	3000	6000	48000	13' reel

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RATINGS AND CHARACTERISTIV CURVES

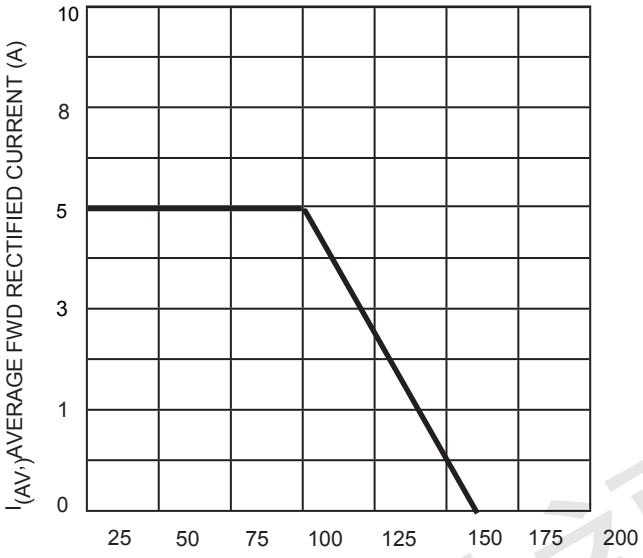


Fig. 1 Forward Derating Curve

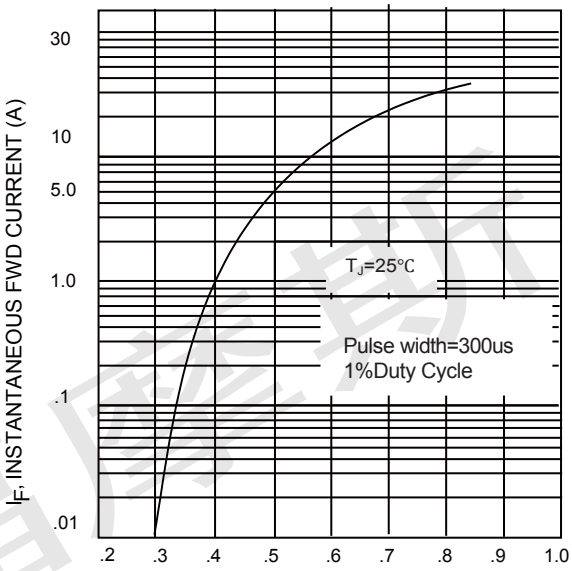


Fig. 2 Typical Forward Characteristics

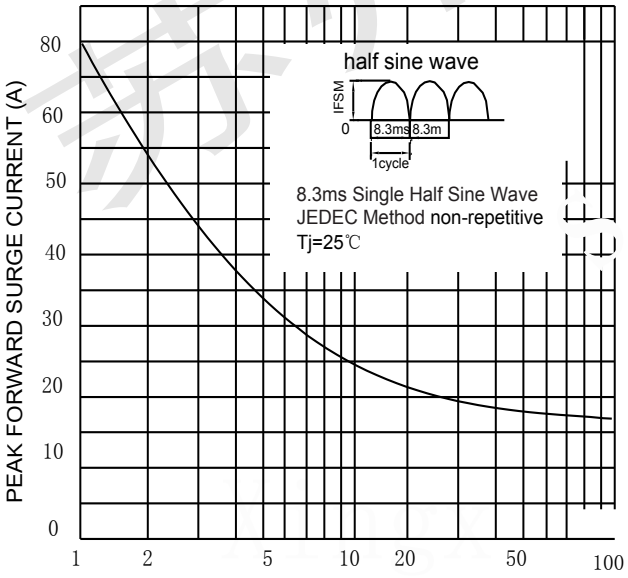


Fig. 3 Peak Forward Surge Current

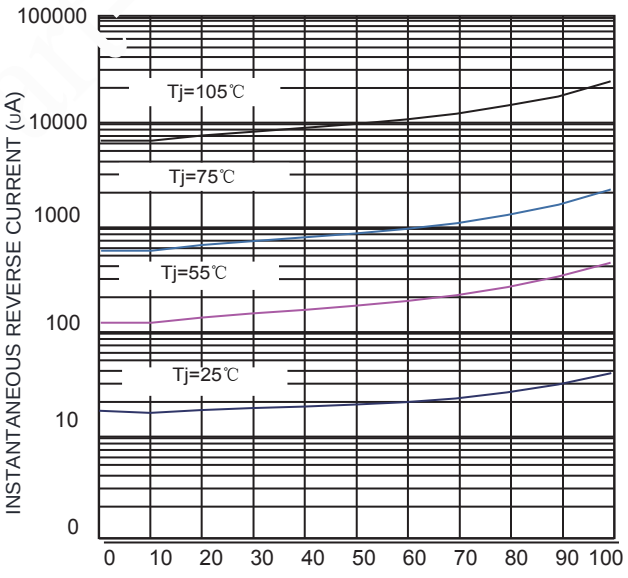


Fig.4-Typical Forward Characteristics