

Power Schottky Rectifier - 5Amp 45~100Volt

Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- Halogen-Free

Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.003 ounce 0.0955 grams

Maximum ratings and Electrical characteristics

Parameters	SBR5L45	SBR5L6	SBR5L10	UNIT
Marking Code	5L45	5L60	5L100	
Maximum Recurrent Peak Reverse Voltage	45	60	100	V
Maximum RMS Voltage	31	42	70	V
Maximum DC Blocking Voltage	45	60	100	V
Maximum Average Forward Rectified Current	5			A
Peak Forward Surge Current	100			A
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.50	0.55	V
	Tc = 125°C	0.45	0.50	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		mA
	Tc = 100°C	20		
Typical Junction Capacitance	250			pF
Typical Thermal Resistance ReJL (Note 1)	18			°C/W
Operating and Storage Temperature Range	-50 to +125		-50 to +150	°C

Note : 1. Mounted on P.C.B with copper pad size 14mm x 14mm

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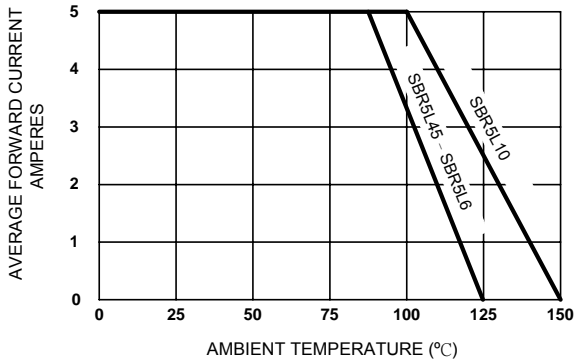


Figure 1. Forward Current Derating Curve

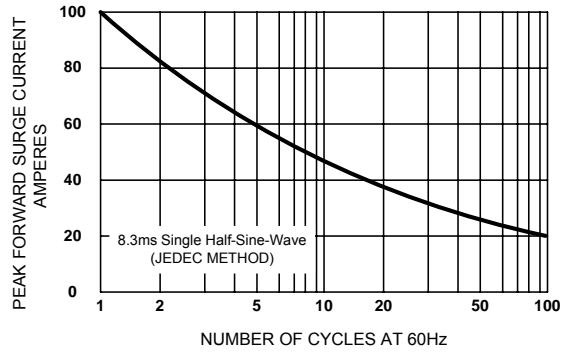


Figure 2. Maximum Non-repetitive Surge Current

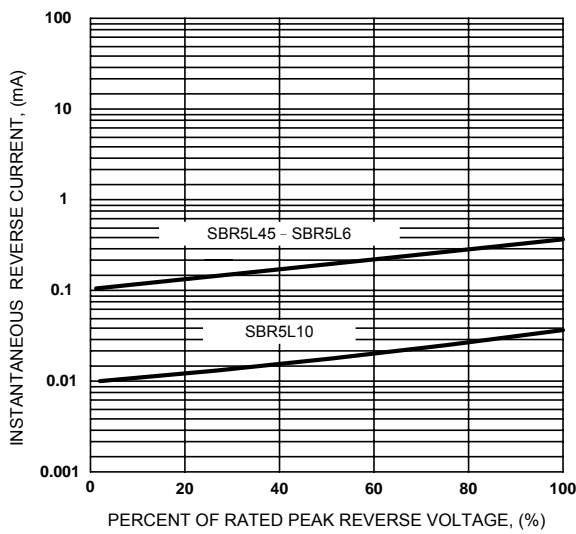


Figure 3. Typical Reverse Characteristics

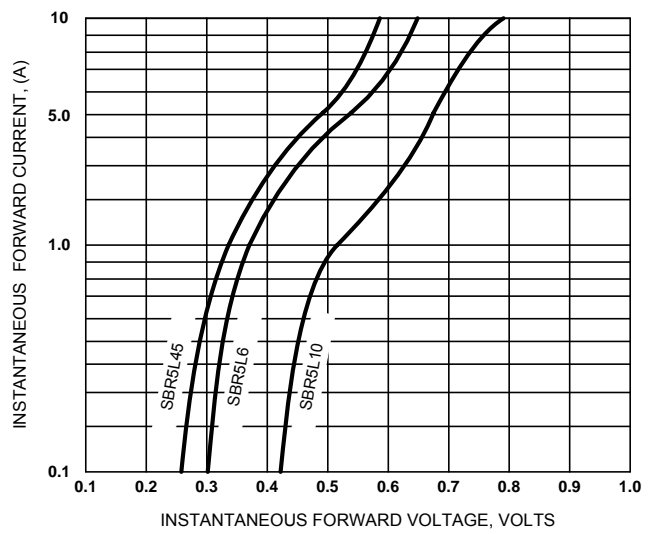


Figure 4. Typical Forward Characteristics

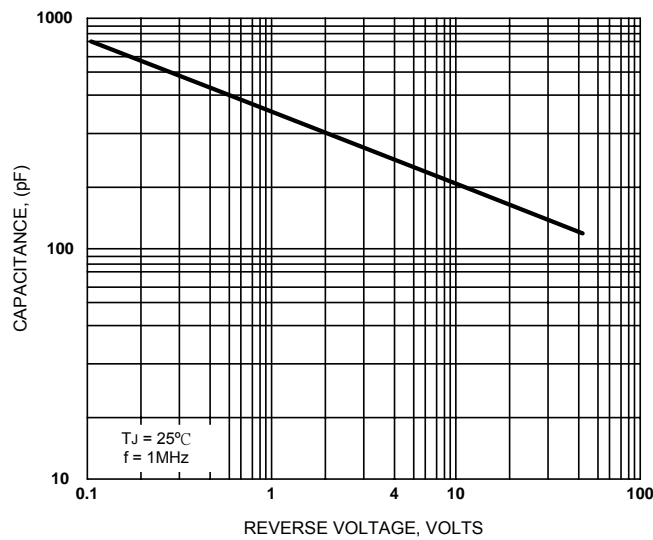
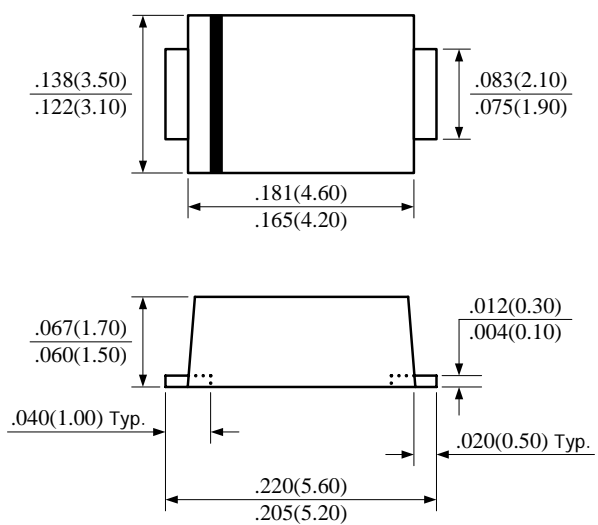


Figure 5. Typical Junction Capacitance

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SMB - F

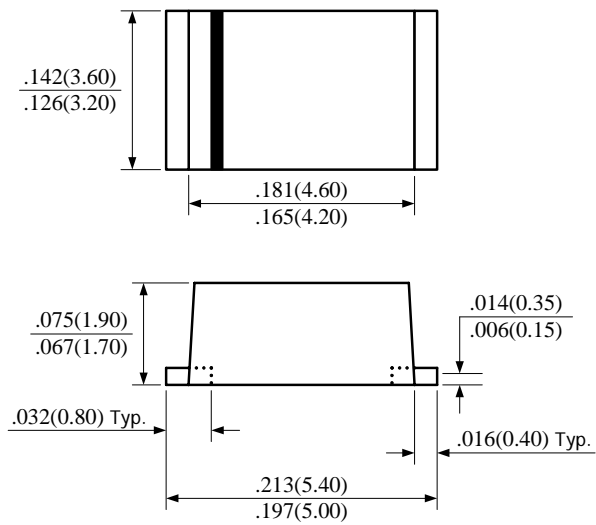


UNIT : inch(mm)



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SMB - FW



UNIT : inch(mm)



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