

Power Schottky Rectifier - 5Amp 150Volt

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.2 grams

Maximum ratings and Electrical characteristics

Parameters (Note 1)		SB5150L(H)	UNIT
Maximum Recurrent Peak Reverse Voltage		150	V
Maximum RMS Voltage		105	V
Maximum DC Blocking Voltage		150	V
Maximum Average Forward Rectified Current		5	A
Peak Forward Surge Current		100	A
Maximum Instantaneous Forward Voltage at 5A	T _c = 25°C	0.79	V
	T _c = 125°C	0.63	
Maximum Average Reverse Current at Rated DC Blocking Voltage	T _c = 25°C	0.05	mA
	T _c = 125°C	10	
Typical Junction Capacitance		250	pF
Typical Thermal Resistance R _{θJA} (Note 2)		25	°C/W
Operating and Storage Temperature Range		-50 to +175	°C

Note : 1. L means Low VF, H means Halogen-Free

2. Mounted on P.C.B with copper pad size 16mm x 16mm, vertical P.C.B 9.5mm lead lengths

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SB5150L(H)

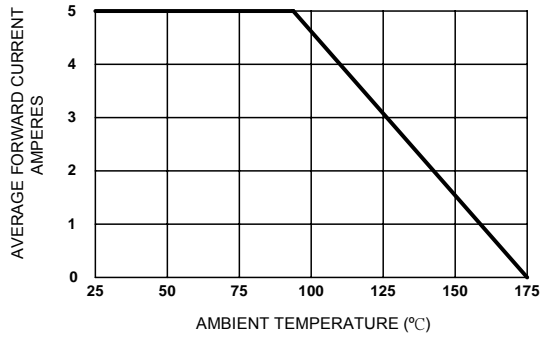


Figure 1. Forward Current Derating Curve

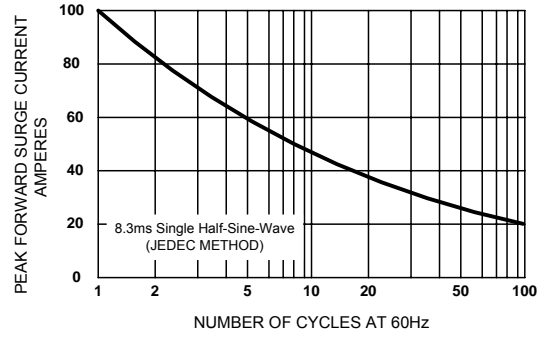


Figure 2. Maximum Non-repetitive Surge Current

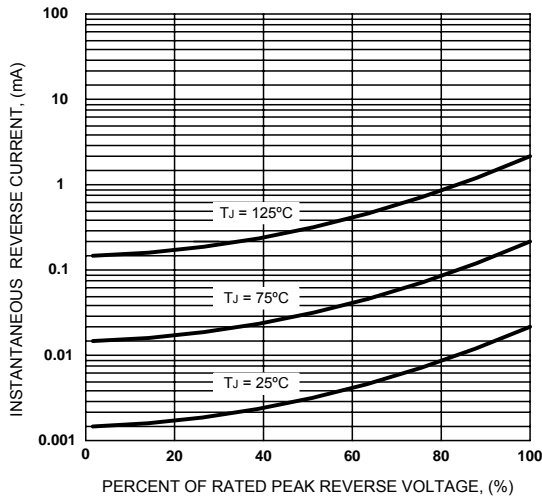


Figure 3. Typical Reverse Characteristics

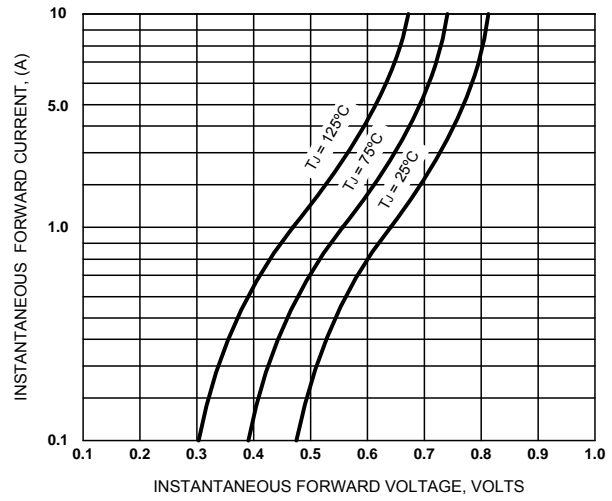


Figure 4. Typical Forward Characteristics

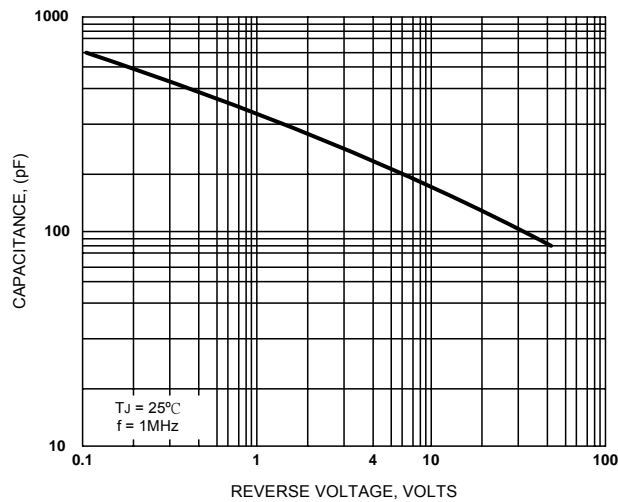


Figure 5. Typical Junction Capacitance



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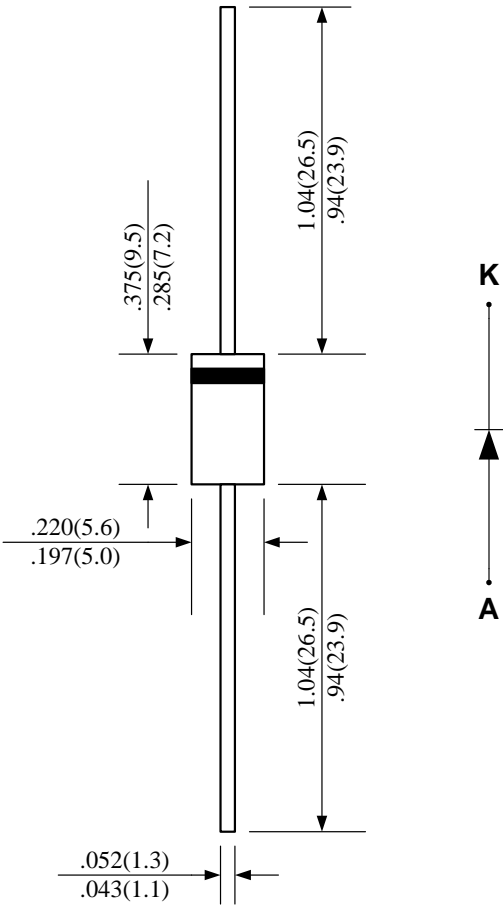
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D0-27 / D0-201AD



UNIT : inch(mm)