

Power Schottky Rectifier - 8Amp 40~150Volt

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)	SB840E(H)	SB860E(H)	SB8100E(H)	SB8150E(H)	UNIT	
Maximum Recurrent Peak Reverse Voltage	40	60	100	150	V	
Maximum RMS Voltage	28	42	70	105	V	
Maximum DC Blocking Voltage	40	60	100	150	V	
Maximum Average Forward Rectified Current	8				A	
Peak Forward Surge Current	110				A	
Maximum Instantaneous Forward Voltage at 8A	Tc = 25°C	0.55	0.70	0.85	0.88	V
	Tc = 125°C	0.44	0.55	0.66	0.69	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		0.05		mA
	Tc = 100°C	20		10		
Typical Junction Capacitance	300				pF	
Typical Thermal Resistance R _{θJA} (Note 2)	25				°C/W	
Operating and Storage Temperature Range	-50 to +150		-50 to +175		°C	

Note : 1. E means Alloy, 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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SB840E(H) ~ SB8150E(H)

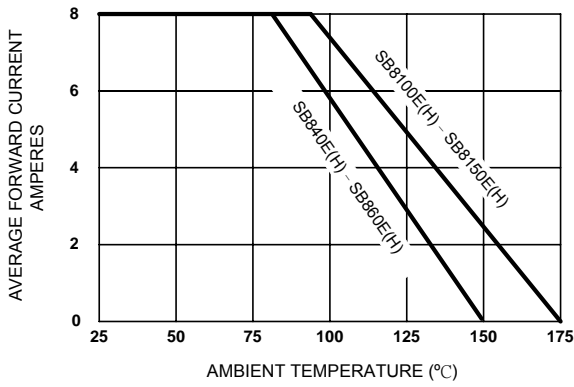


Figure 1. Forward Current Derating Curve

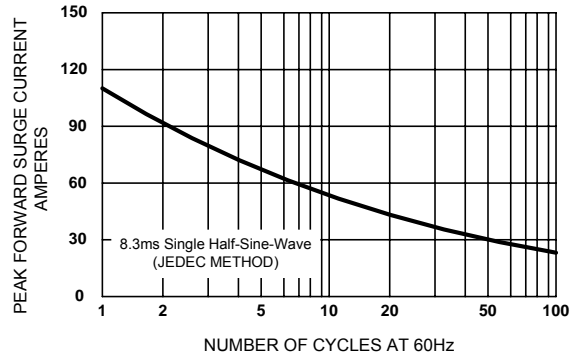


Figure 2. Maximum Non-repetitive Surge Current

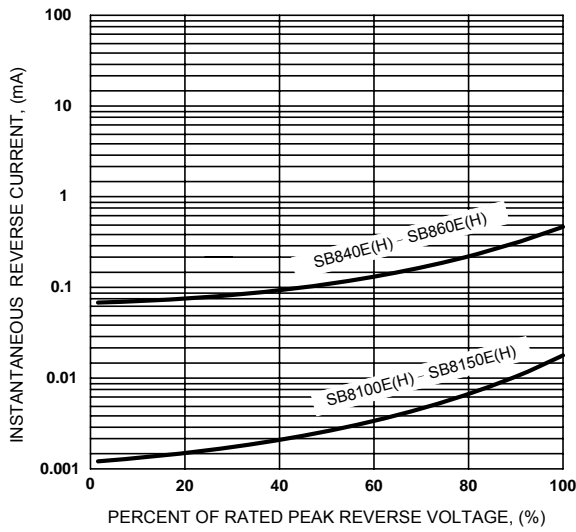


Figure 3. Typical Reverse Characteristics

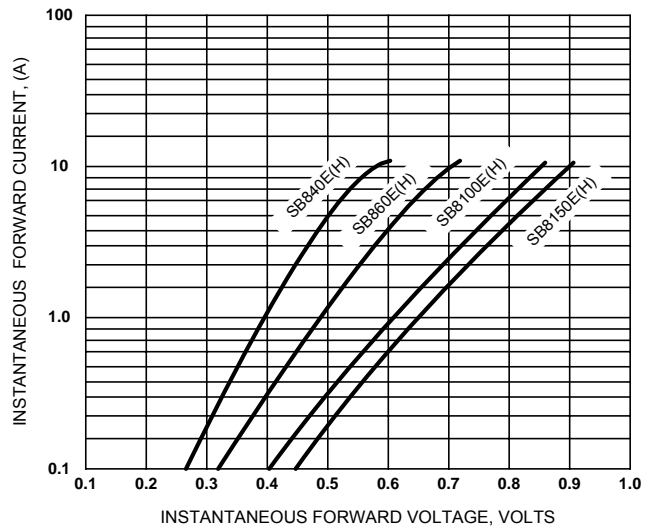


Figure 4. Typical Forward Characteristics

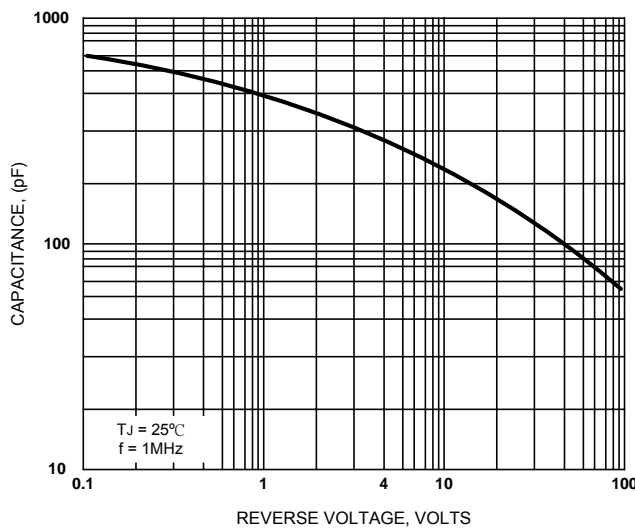


Figure 5. Typical Junction Capacitance



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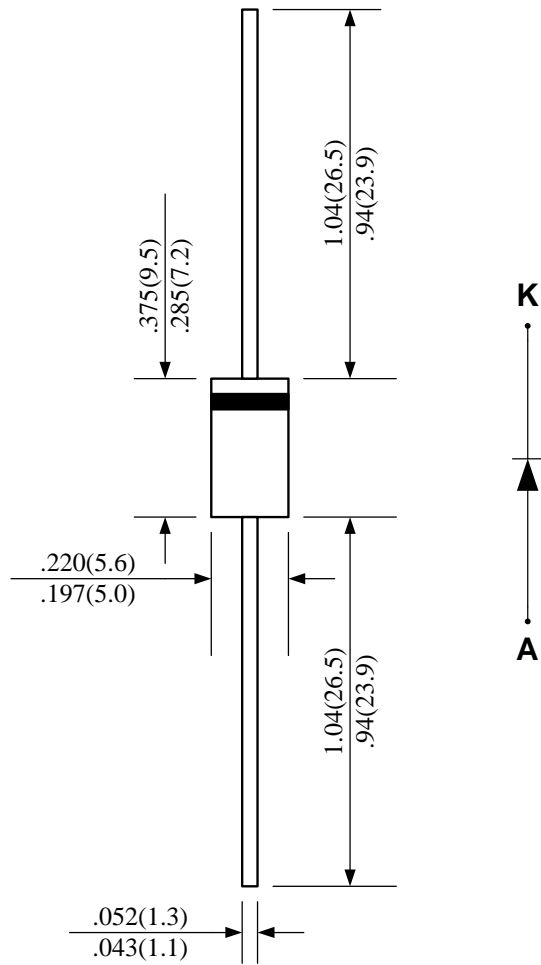
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SB840E(H)~SB8150E(H)

D0-27 / D0-201AD



UNIT : inch(mm)