

Power Schottky Rectifier - 15Amp 45~200Volt

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)	SB1545(E)(H)	SB1560(E)(H)	SB15100(E)(H)	SB15150(E)(H)	SB15200(E)(H)	UNIT	
Maximum Recurrent Peak Reverse Voltage	45	60	100	150	200	V	
Maximum RMS Voltage	31	42	70	105	140	V	
Maximum DC Blocking Voltage	45	60	100	150	200	V	
Maximum Average Forward Rectified Current	15					A	
Peak Forward Surge Current	130					A	
Maximum Instantaneous Forward Voltage at 15A	Tc = 25°C	0.55	0.65	0.82	0.88	0.90	V
	Tc = 125°C	0.44	0.50	0.66	0.69	0.72	
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	450					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

December 2013 / Rev.7.0

SB1545(E)(H) ~ SB15200(E)(H)

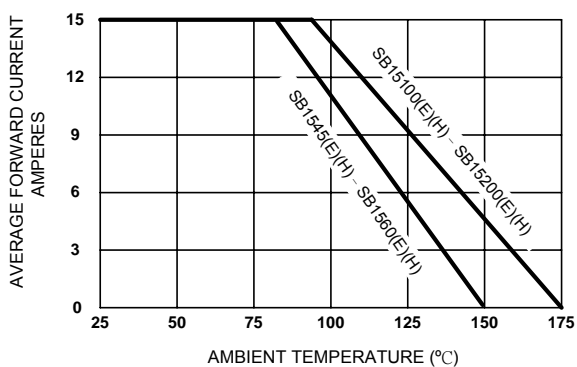


Figure 1. Forward Current Derating Curve

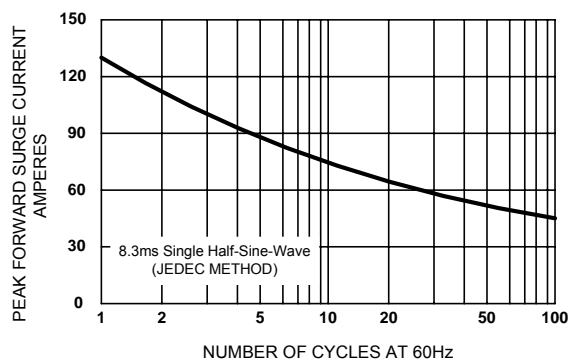


Figure 2. Maximum Non-repetitive Surge Current

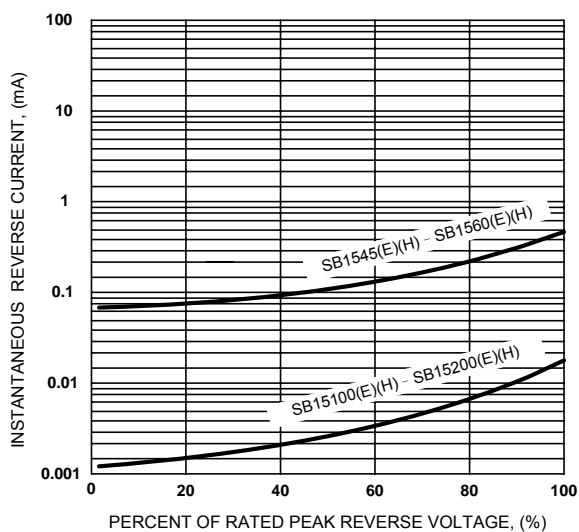


Figure 3. Typical Reverse Characteristics

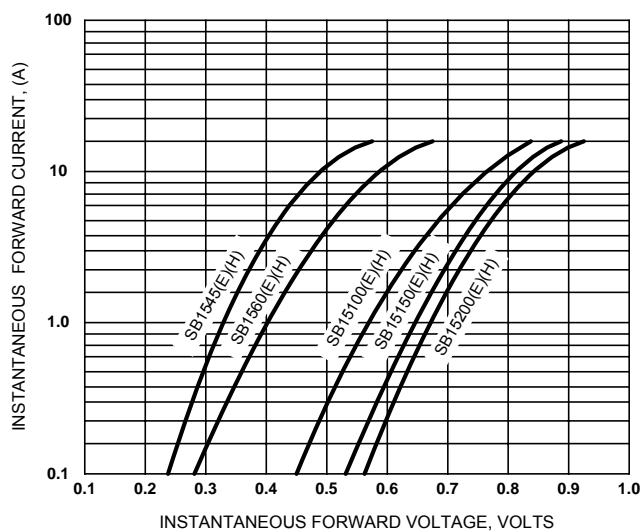


Figure 4. Typical Forward Characteristics

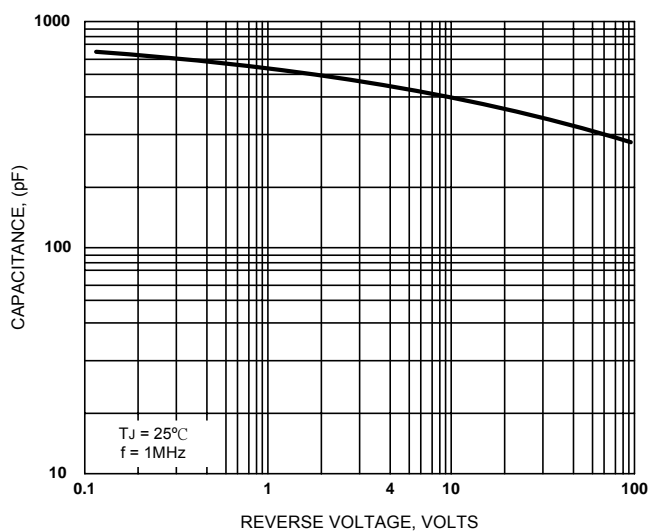


Figure 5. Typical Junction Capacitance



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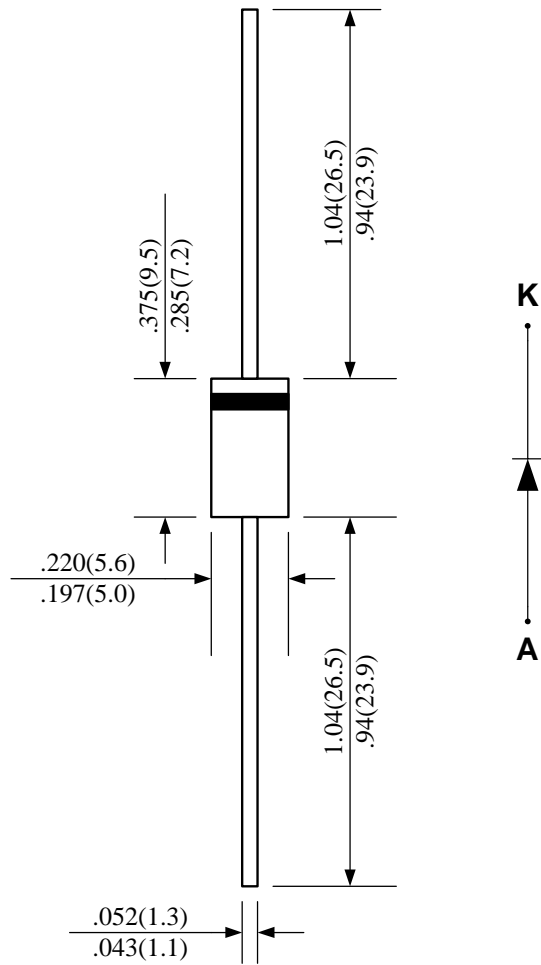
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SB1545(E)(H)~SB15200(E)(H)

D0-27 / D0-201AD



UNIT : inch(mm)