

## Power Schottky Rectifier - 5Amp 40~200Volt

**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)	SB540(E)(H)	SB560(E)(H)	SB5100(E)(H)	SB5150(E)(H)	SB5200(E)(H)	UNIT	
Maximum Recurrent Peak Reverse Voltage	40	60	100	150	200	V	
Maximum RMS Voltage	28	42	70	105	140	V	
Maximum DC Blocking Voltage	40	60	100	150	200	V	
Maximum Average Forward Rectified Current	5					A	
Peak Forward Surge Current	100					A	
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.55	0.70	0.82	0.88	0.90	V
	Tc = 125°C	0.44	0.55	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	250					pF	
Typical Thermal Resistance R <sub>θJA</sub> (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

# SB540(E)(H) ~ SB5200(E)(H)

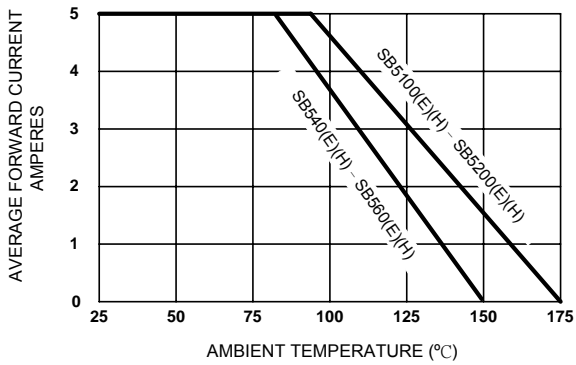


Figure 1. Forward Current Derating Curve

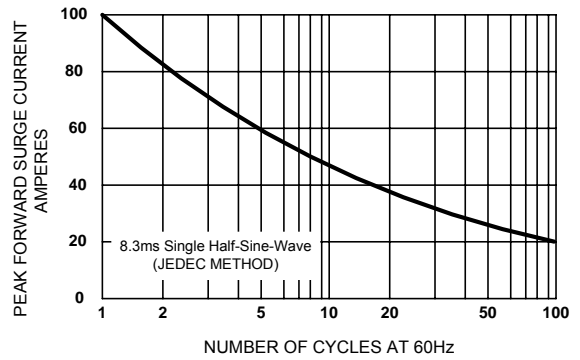


Figure 2. Maximum Non-repetitive Surge Current

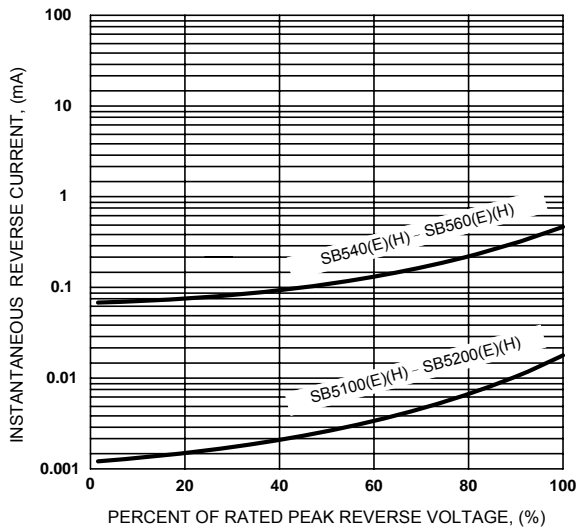


Figure 3. Typical Reverse Characteristics

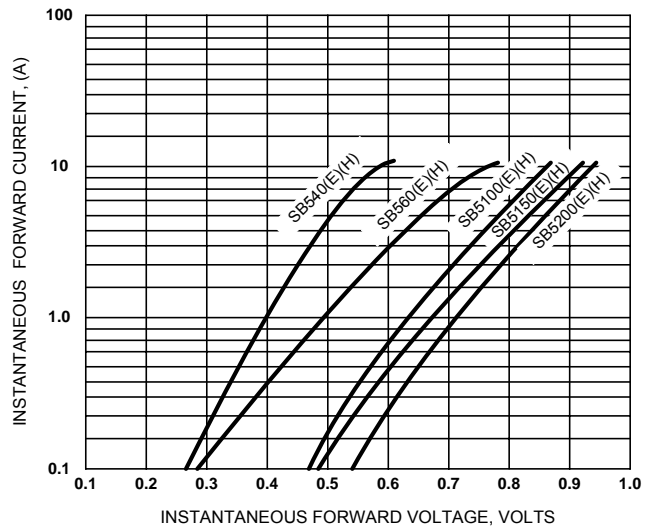


Figure 4. Typical Forward Characteristics

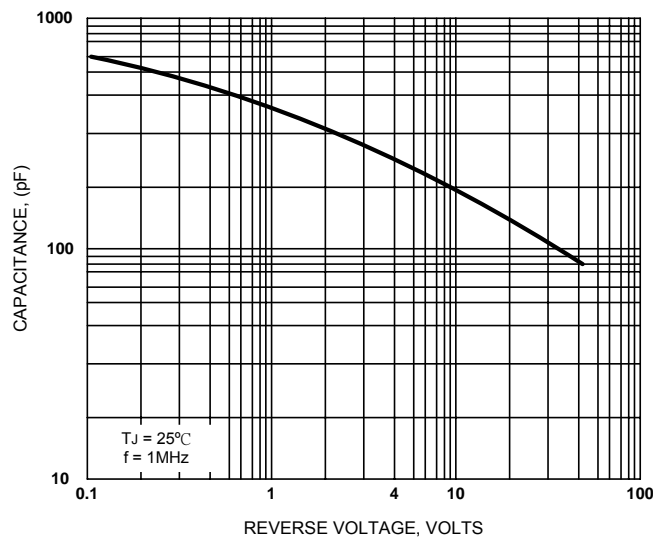


Figure 5. Typical Junction Capacitance

