

## Power Schottky Rectifier - 3Amp 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)	SB340(E)(H)	SB360(E)(H)	SB3100(E)(H)	SB3150(E)(H)	SB3200(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	3					A
Peak Forward Surge Current	80					A
Maximum Instantaneous Forward Voltage at 3A	Tc = 25°C	0.55	0.65	0.82	0.88	V
	Tc = 125°C	0.44	0.50	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	150					pF
Typical Thermal Resistance R <sub>θJA</sub> (Note 2)	30					°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

# SB340(E)(H) ~ SB3200(E)(H)

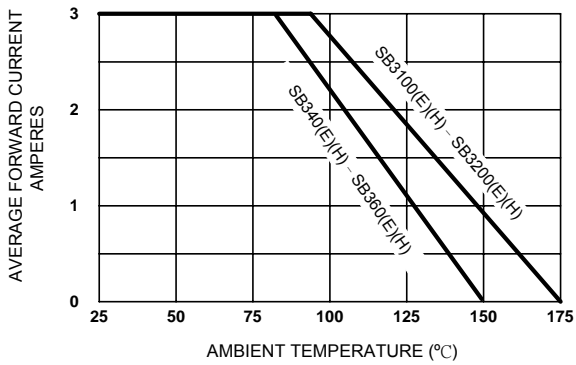


Figure 1. Forward Current Derating Curve

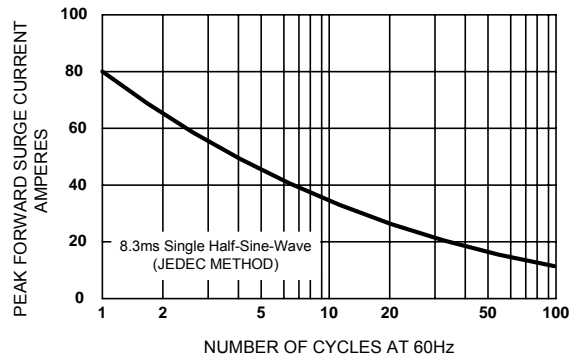


Figure 2. Maximum Non-repetitive Surge Current

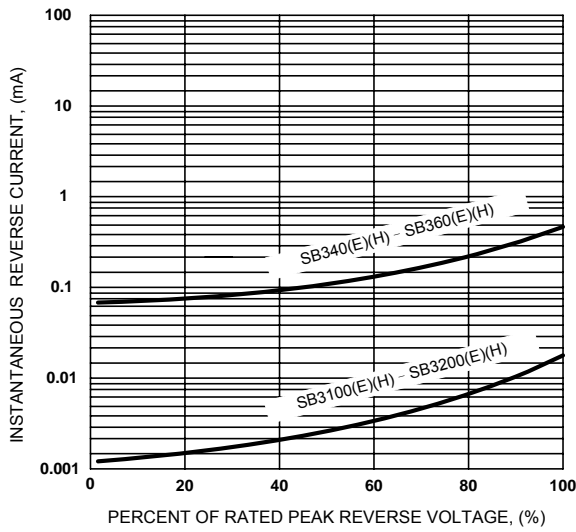


Figure 3. Typical Reverse Characteristics

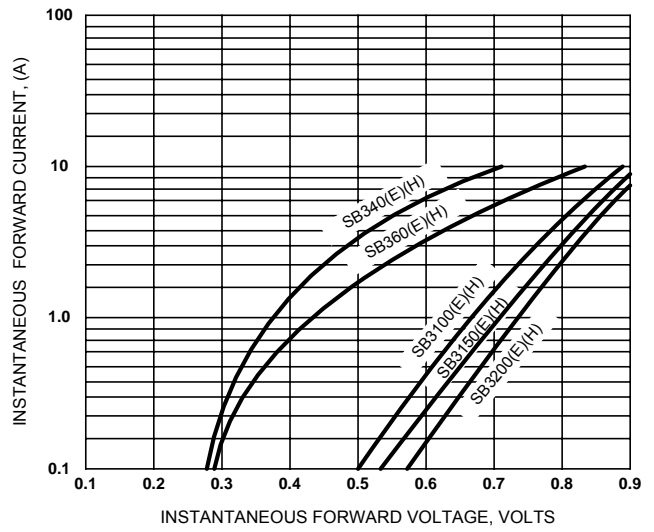


Figure 4. Typical Forward Characteristics

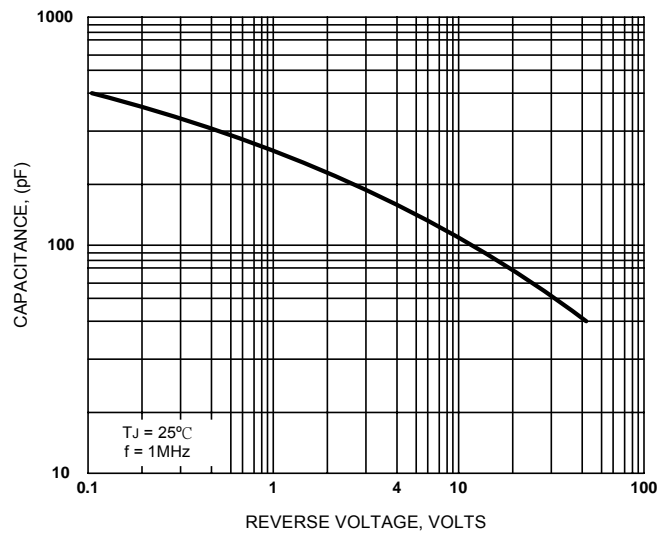


Figure 5. Typical Junction Capacitance



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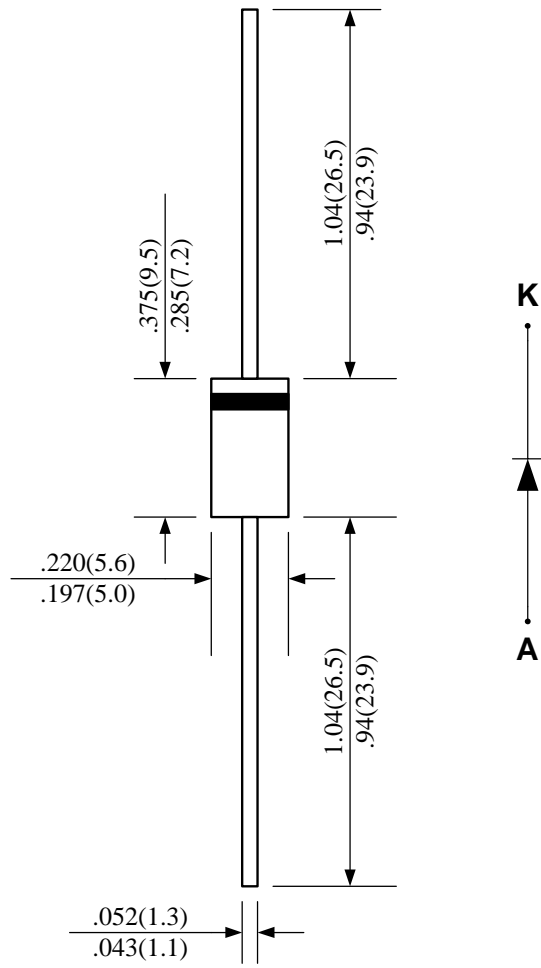
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SB340(E)(H)~SB3200(E)(H)

D0-27 / D0-201AD



UNIT : inch(mm)