

## Power Schottky Rectifier - 3Amp 40~200Volt

**Features**

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

**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 : 0.4 grams

**Maximum ratings and Electrical characteristics**

Parameters	SB340ESH	SB360ESH	SB3100ESH	SB3150ESH	SB3200ESH	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 = 125°C	20		10		
Typical Junction Capacitance	150					pF
Typical Thermal Resistance R <sub>θJA</sub>	30					°C/W
Operating and Storage Temperature Range	-50 to +150		-50 to +175			°C

June 2010 / Rev.6.6

# SB340ESH ~ SB3200ESH

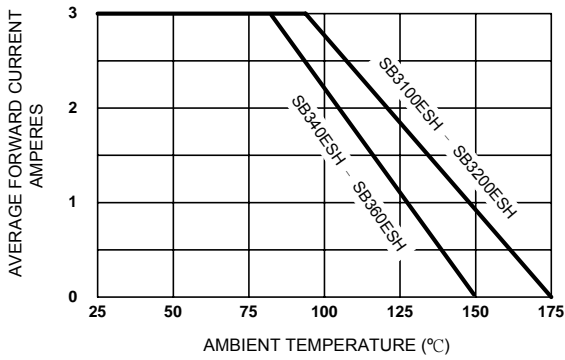


Figure 1. Forward Current Derating Curve

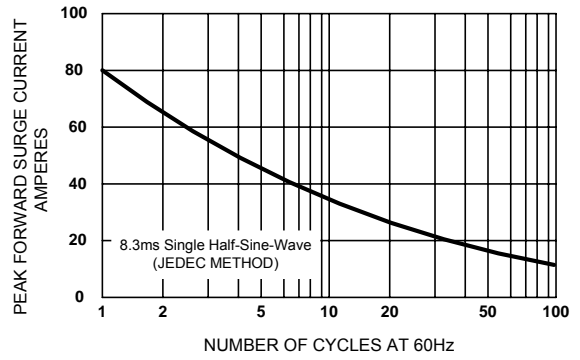


Figure 2. Maximum Non-repetitive Surge Current

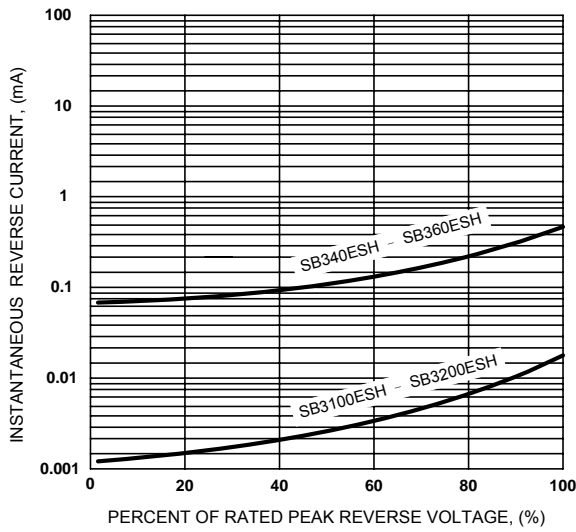


Figure 3. Typical Reverse Characteristics

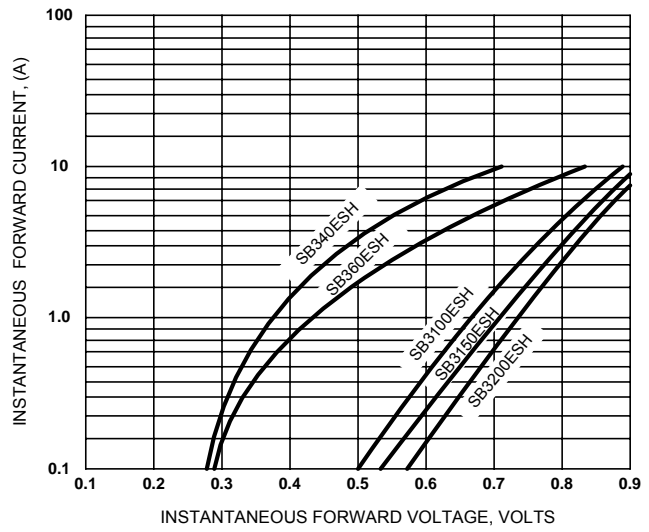


Figure 4. Typical Forward Characteristics

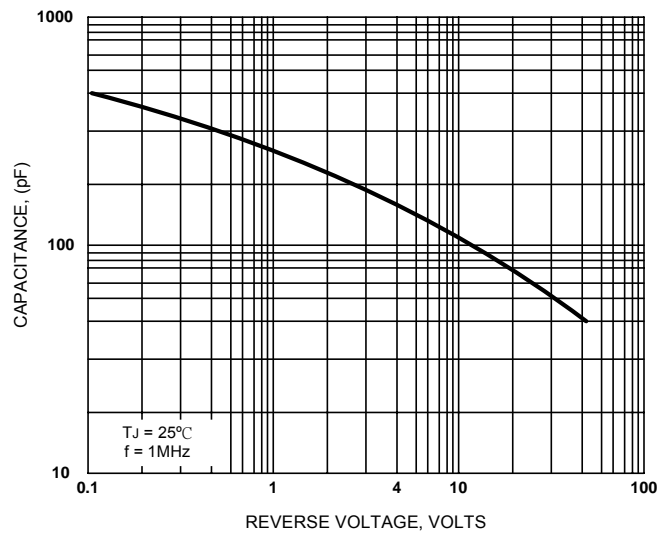


Figure 5. Typical Junction Capacitance



Sirectifier Global Corp., Delaware, U.S.A.

U.S.A.: [sgc@sirectsemi.com](mailto:sgc@sirectsemi.com) France: [ss@sirectsemi.com](mailto:ss@sirectsemi.com) Taiwan: [se@sirectsemi.com](mailto:se@sirectsemi.com) Hong Kong: [hk@sirectsemi.com](mailto:hk@sirectsemi.com)  
 China: [st@sirectsemi.com](mailto:st@sirectsemi.com) Thailand: [th@sirectsemi.com](mailto:th@sirectsemi.com) Philippines: [aiac@sirectsemi.com](mailto:aiac@sirectsemi.com) Belize: [belize@sirectsemi.com](mailto:belize@sirectsemi.com)

**SB340ESH~SB3200ESH**

**D0-15**

