

## Power Schottky Rectifier - 8Amp 40~100Volt

**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		SB840E	SB860E	SB8100E	UNIT
Maximum Recurrent Peak Reverse Voltage		40	60	100	V
Maximum RMS Voltage		28	42	70	V
Maximum DC Blocking Voltage		40	60	100	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	V
	Tc = 125°C	0.44	0.55	0.66	
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		300			pF
Typical Thermal Resistance R <sub>θJA</sub>		25			°C/W
Operating and Storage Temperature Range		-50 to +150		-50 to +175	°C

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# SB840E ~ SB8100E

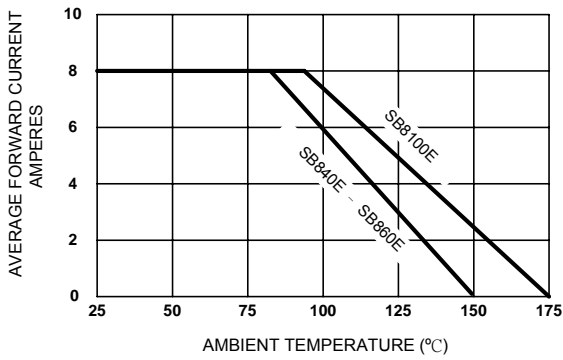


Figure 1. Forward Current Derating Curve

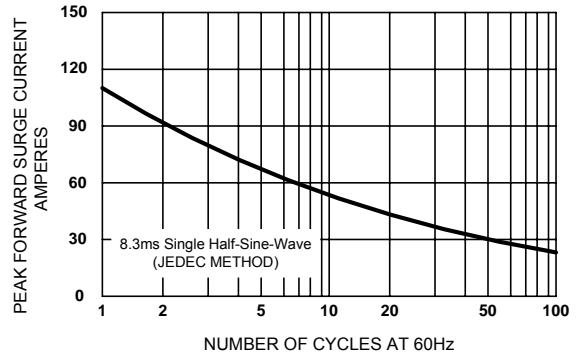


Figure 2. Maximum Non-repetitive Surge Current

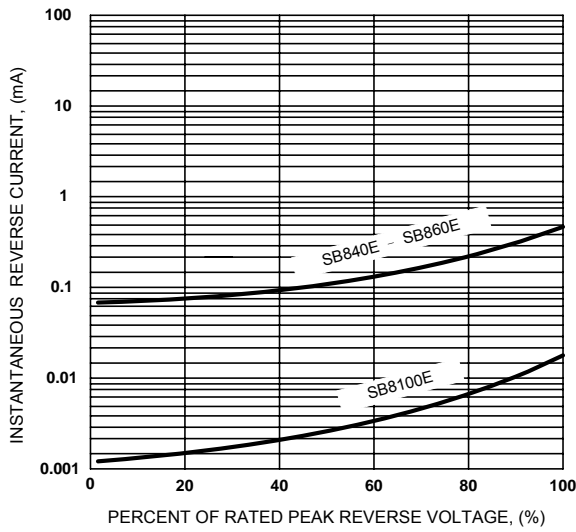


Figure 3. Typical Reverse Characteristics

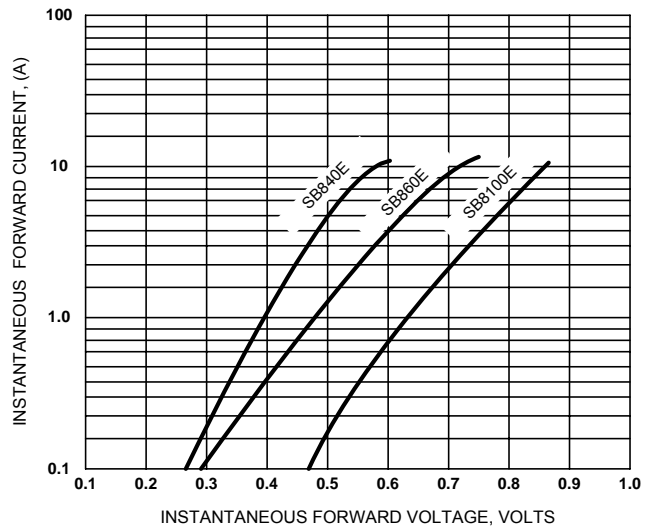


Figure 4. Typical Forward Characteristics

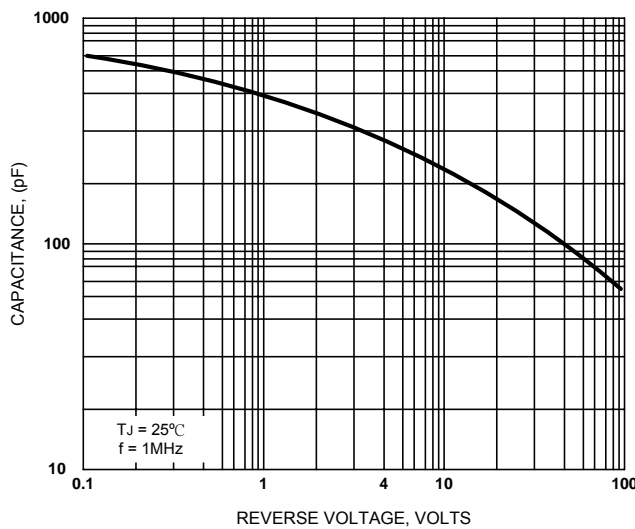


Figure 5. Typical Junction Capacitance



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**SB840E~SB8100E**

**D0-27 / D0-201AD**

