

Power Schottky Rectifier - 8Amp 40~100Volt

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 : 1.2 grams

Maximum ratings and Electrical characteristics

| Parameters | | SB840EH | SB860EH | SB8100EH | 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 _{θJA} | | 25 | | | °C/W |
| Operating and Storage Temperature Range | | -50 to +150 | | -50 to +175 | °C |

June 2010 / Rev.6.6

SB840EH ~ SB8100EH

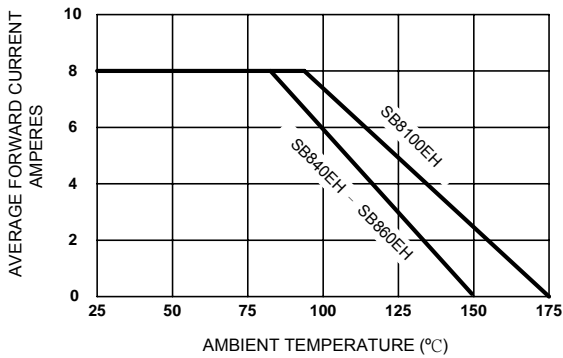


Figure 1. Forward Current Derating Curve

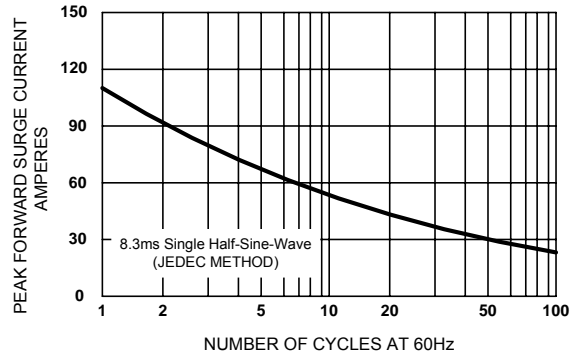


Figure 2. Maximum Non-repetitive Surge Current

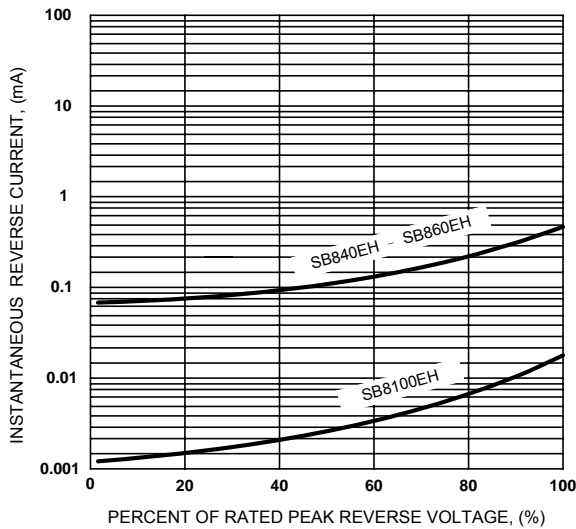


Figure 3. Typical Reverse Characteristics

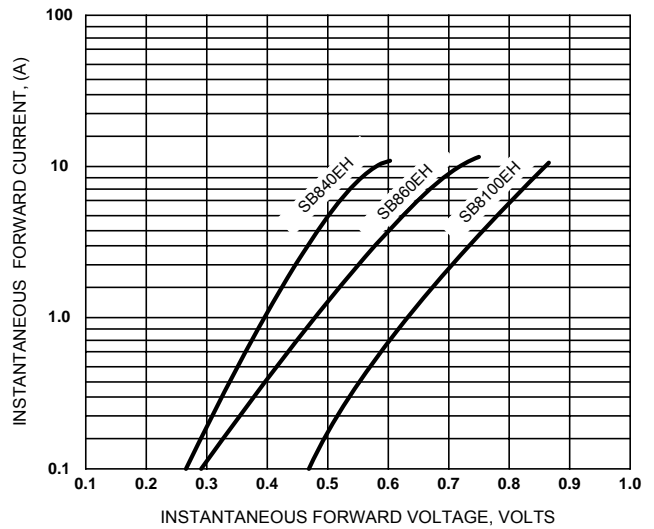


Figure 4. Typical Forward Characteristics

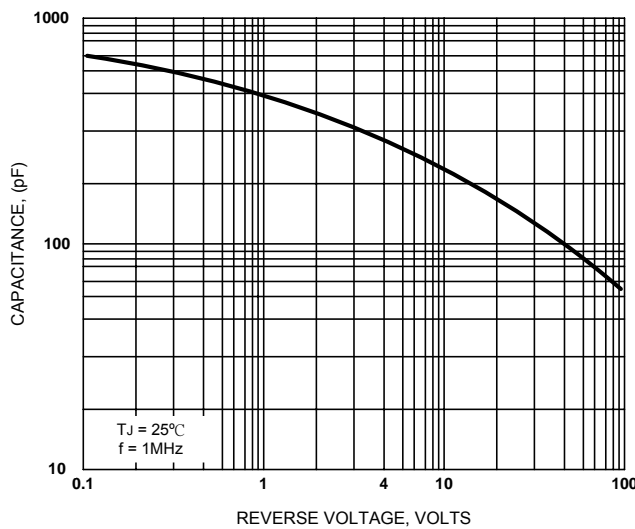


Figure 5. Typical Junction Capacitance



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

U.S.A.: sgc@sirectsemi.com
China: st@sirectsemi.com

France: ss@sirectsemi.com
Thailand: th@sirectsemi.com

Taiwan: se@sirectsemi.com
Philippines: aiac@sirectsemi.com

Hong Kong: hk@sirectsemi.com
Belize: belize@sirectsemi.com

SB840EH~SB8100EH

D0-27 / D0-201AD

