

Power Schottky Rectifier - 10Amp 45~200Volt

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 | SB1045 | SB1060 | SB10100 | SB10150 | SB10200 | UNIT |
|--------------------------------------------------------------|-------------|--------|-------------|---------|---------|------|
| Maximum Recurrent Peak Reverse Voltage | 45 | 60 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | 32 | 42 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | 45 | 60 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current | 10 | | | | | A |
| Peak Forward Surge Current | 120 | | | | | A |
| Maximum Instantaneous Forward Voltage at 10A | Tc = 25°C | 0.60 | 0.70 | 0.82 | 0.88 | V |
| | Tc = 125°C | 0.48 | 0.55 | 0.66 | 0.69 | |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | Tc = 25°C | 0.5 | 0.3 | 0.05 | | mA |
| | Tc = 125°C | 20 | 15 | 10 | | |
| Typical Junction Capacitance | 350 | | | | | pF |
| Typical Thermal Resistance R _{θJA} | 25 | | | | | °C/W |
| Operating and Storage Temperature Range | -50 to +150 | | -50 to +175 | | | °C |

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SB1045 ~ SB10200

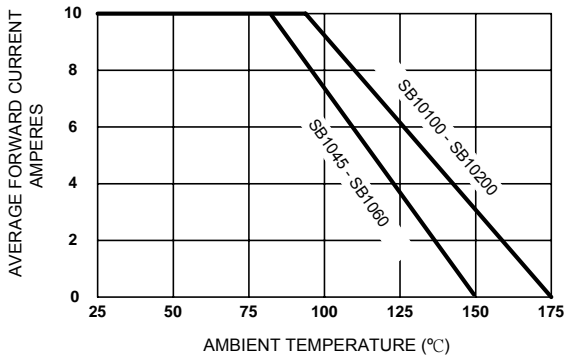


Figure 1. Forward Current Derating Curve

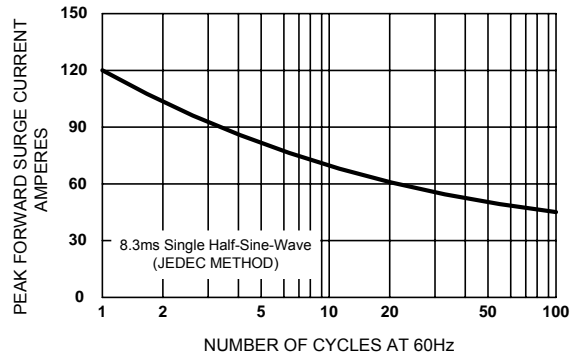


Figure 2. Maximum Non-repetitive Surge Current

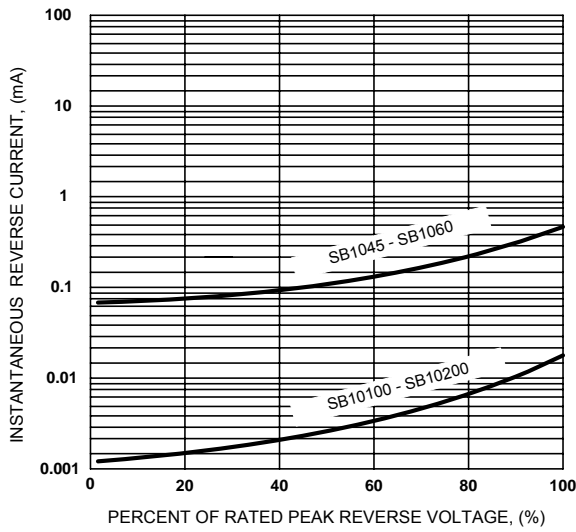


Figure 3. Typical Reverse Characteristics

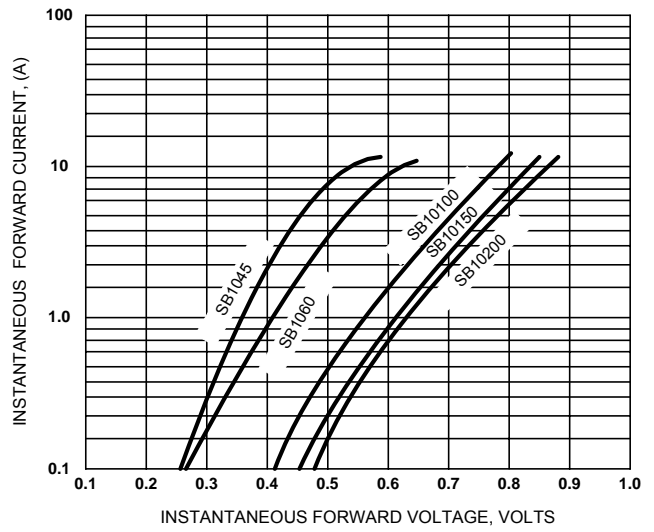


Figure 4. Typical Forward Characteristics

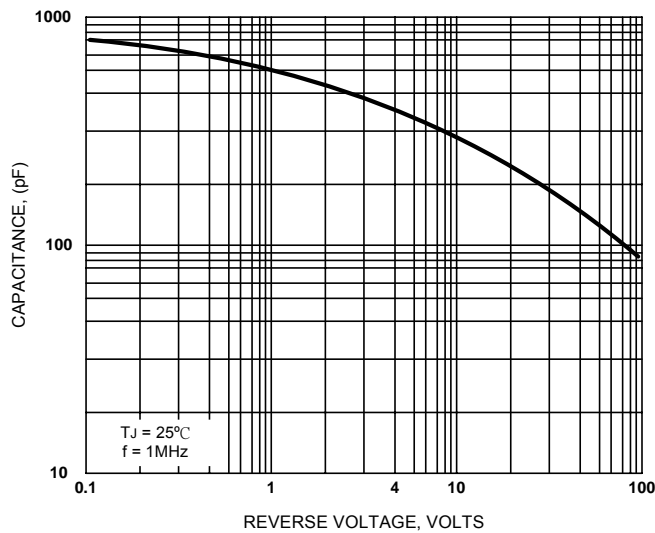


Figure 5. Typical Junction Capacitance



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

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

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D0-27 / D0-201AD

