

**Schottky Rectifier - 5Amp 20~100Volt**

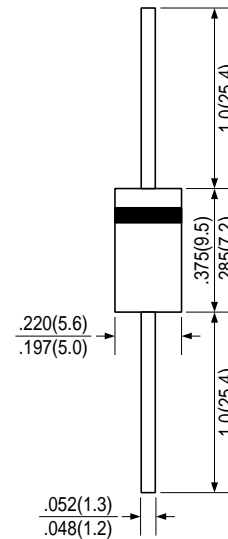
**Features**

- 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 : 1.10 grams

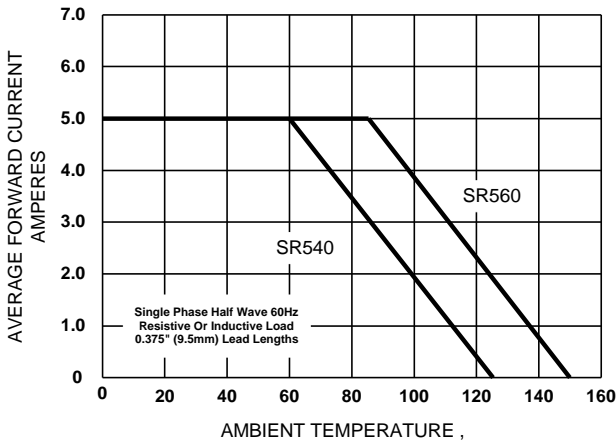
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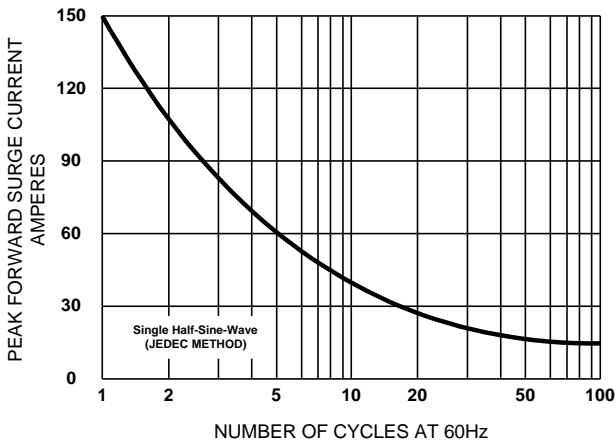
**Maximum ratings and Electrical characteristics**

TYPE	SB520	SB530	SB540	SB550	SB560	SB580	SB5100	UNIT
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	5.0							A
Peak Forward surge Current, 8.3ms single half sine-wave superimposed on rated load	100							A
Maximum Instantaneous Forward Voltage at 5.0A	0.55		0.70		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 5.0							mA
	Ta=100°C 50							
Typical Junction Capacitance	380							pF
Typical Thermal Resistance R JA	10							°C/W
Operating Temperature Range TJ	-50 - 125							°C
Storage Temperature Range TSTG	-65 - 150							°C

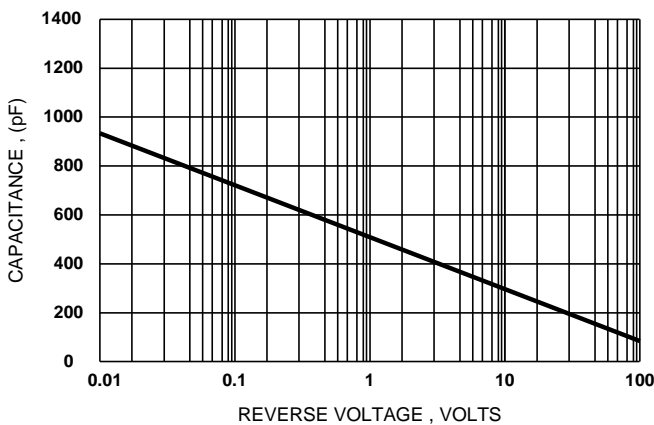
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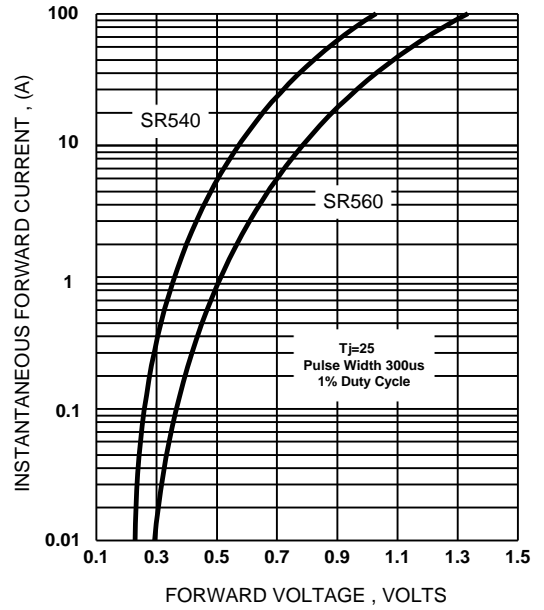
**Figure 1. Forward Current Derating Curve**



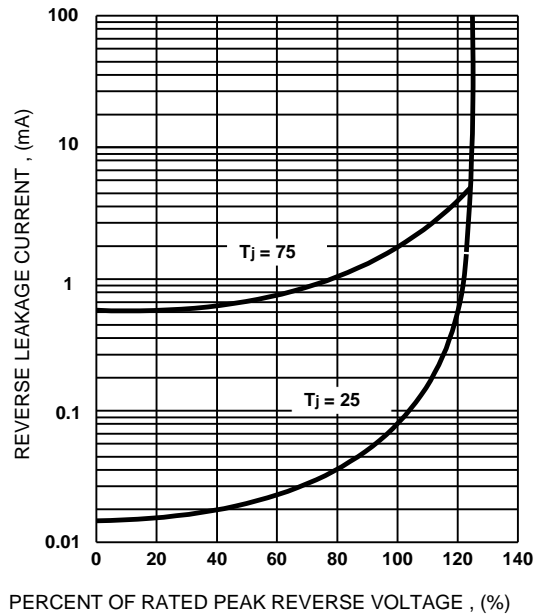
**Figure 2. Maximum Non-repetitive Surge Current**



**Figure 3. Typical Junction Capacitance**



**Figure 4. Typical Forward Characteristics**



**Figure 5. Typical Reverse Characteristics**