

Power Schottky Rectifier - 3Amp 20~100Volt

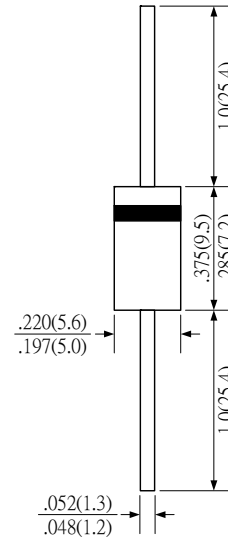
□ Features

- 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

DO-27 / DO-201AD



□ Maximum ratings and Electrical characteristics

TYPE		SB320	SB330	SB340	SB350	SB360	SB380	SB3100	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		3.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		80							A
Maximum Instantaneous Forward Voltage at 3.0A		0.55			0.65		0.82		V
Repetitive peak avalanche power, tp = 1μs Tj = 25 °C		1300			2000				W
Maximum DC Reverse Current at Rated	Ta = 25°C	0.5			0.3		0.01		mA
DC Blocking Voltage	Ta = 100°C	20			15		10		
Typical Junction Capacitance		250							pF
Typical Thermal Resistance RθJA		20							°C/W
Operating Temperature Range TJ		-50 - 125							°C
Storage Temperature Range TSTG		-65 - 150							°C

Note: Pulse Test : 380 μs pulse width, 2% duty cycle

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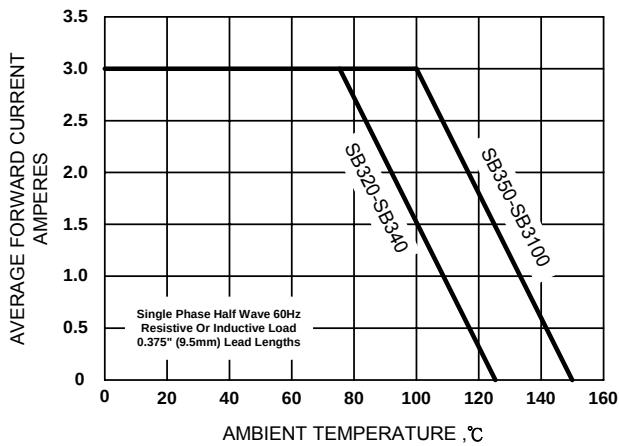


Figure 1. Forward Current Derating Curve

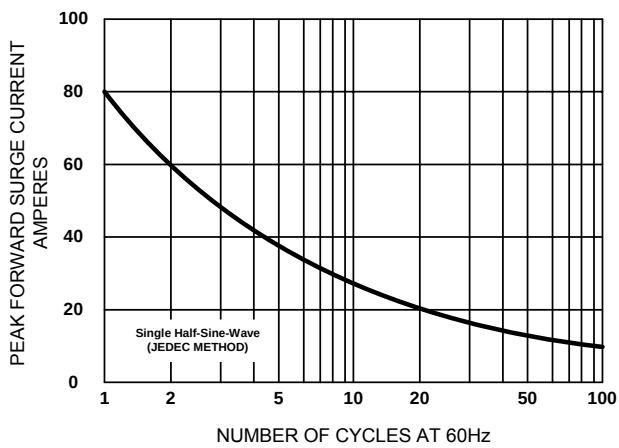


Figure 2. Maximum Non-repetitive Surge Current

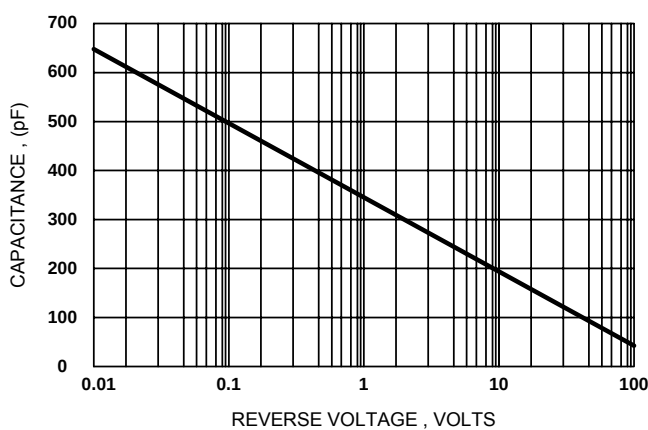


Figure 3. Typical Junction Capacitance

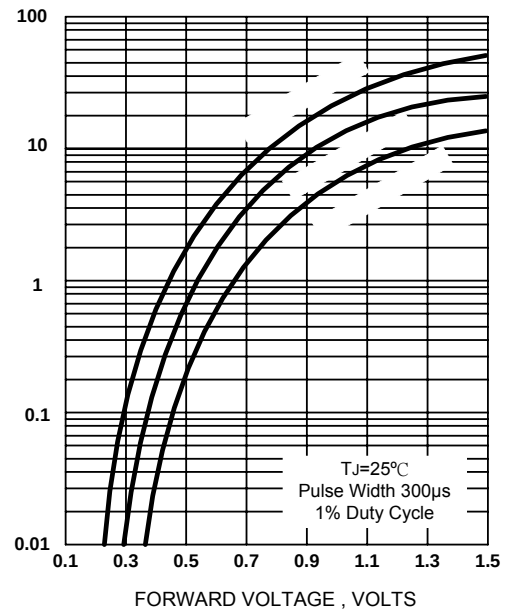


Figure 4. Typical Forward Characteristics

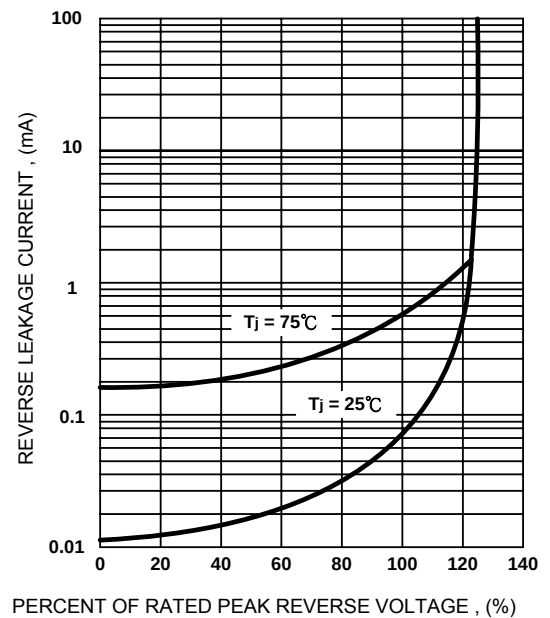


Figure 5. Typical Reverse Characteristics