

Schottky Rectifier - 3Amp 20~100Volt

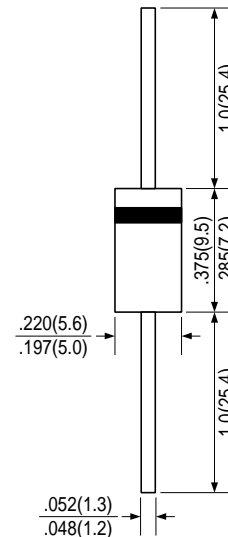
Features

- 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



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		0.70		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 3.0							mA
	Ta=100°C 30							
Typical Junction Capacitance	250							pF
Typical Thermal Resistance R JA	20							°C/W
Operating Temperature Range TJ	-50 - 125							°C
Storage Temperature Range TSTG	-65 - 150							°C

January 2004

SB320 ~ SB3100

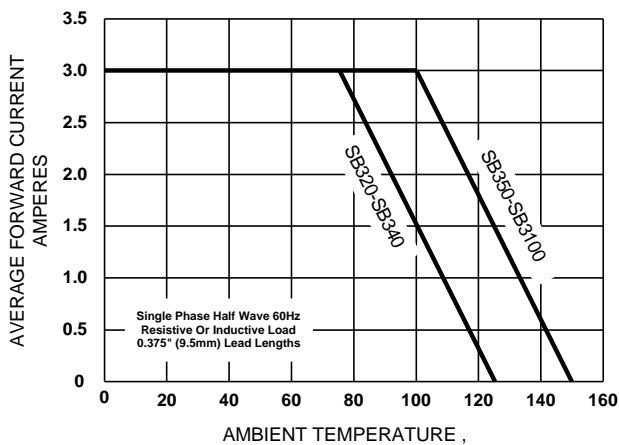


Figure 1. Forward Current Derating Curve

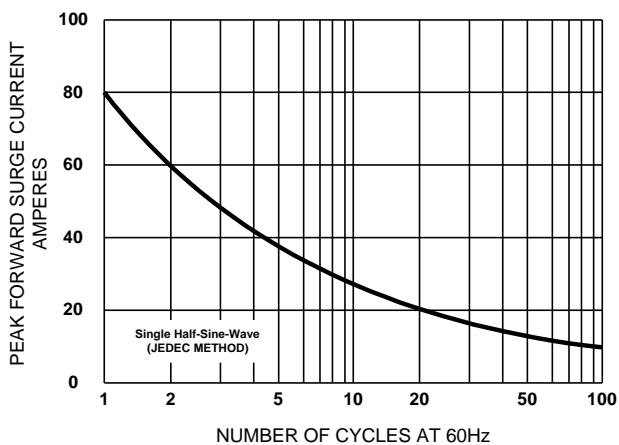


Figure 2. Maximum Non-repetitive Surge Current

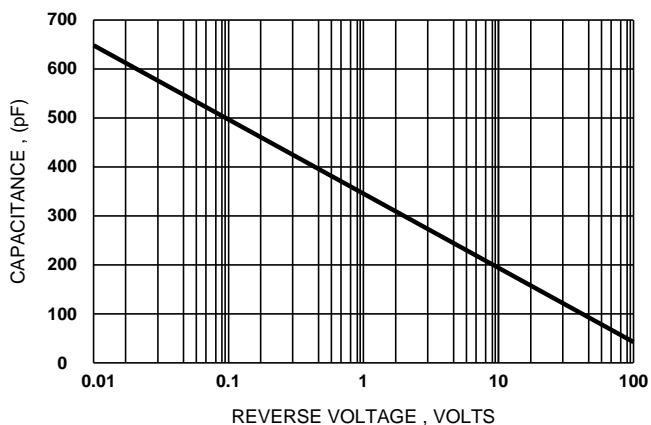


Figure 3. Typical Junction Capacitance

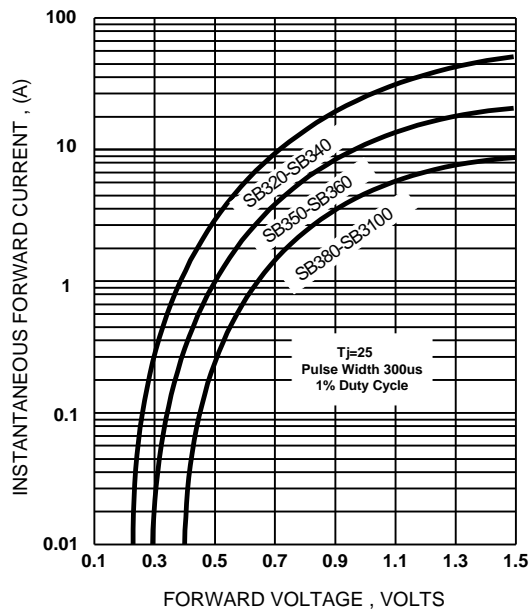


Figure 4. Typical Forward Characteristics

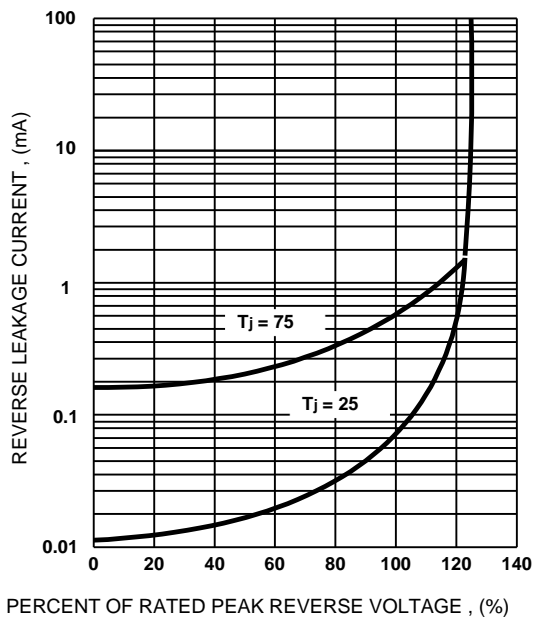


Figure 5. Typical Reverse Characteristics