

**Power Schottky Rectifier - 5Amp 40~100Volt**

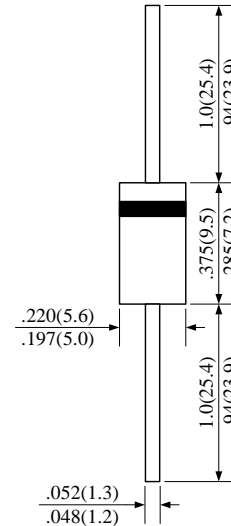
**Features**

- 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

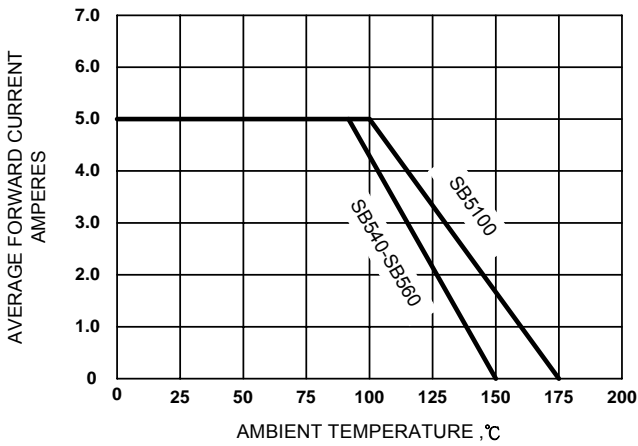
**D0-27 / D0-201AD**



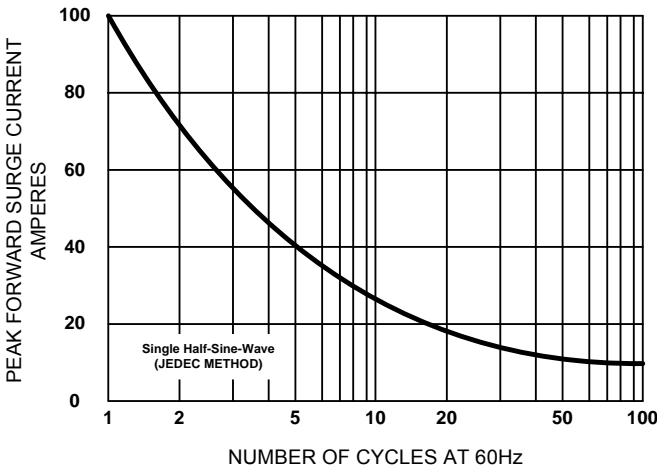
**Maximum ratings and Electrical characteristics**

TYPE	SB540	SB560	SB5100	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	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	0.82	V	
Repetitive peak avalanche power, $t_p = 1\mu s$ $T_j = 25^\circ C$	2700	4000		W	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25^\circ C$	0.5	0.3	0.01	mA
	$T_a = 100^\circ C$	20	15	10	
Typical Junction Capacitance	380			pF	
Typical Thermal Resistance $R_{\theta JA}$	10			$^\circ C/W$	
Operating Temperature Range $T_J$	-50 to +150		-50 to +175	$^\circ C$	
Storage Temperature Range $T_{STG}$	-50 to +150				

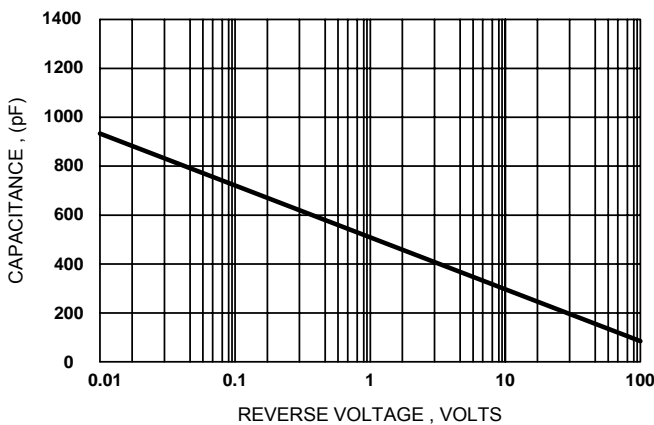
Note: Pulse Test : 380 $\mu s$  pulse width, 2% duty cycle



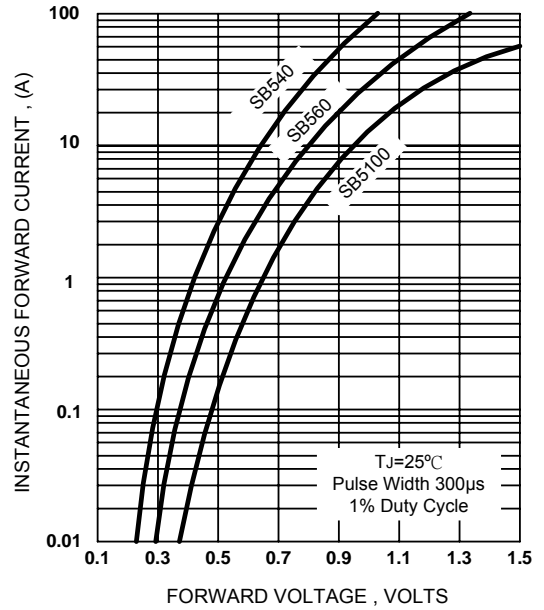
**Figure 1. Forward Current Derating Curve**



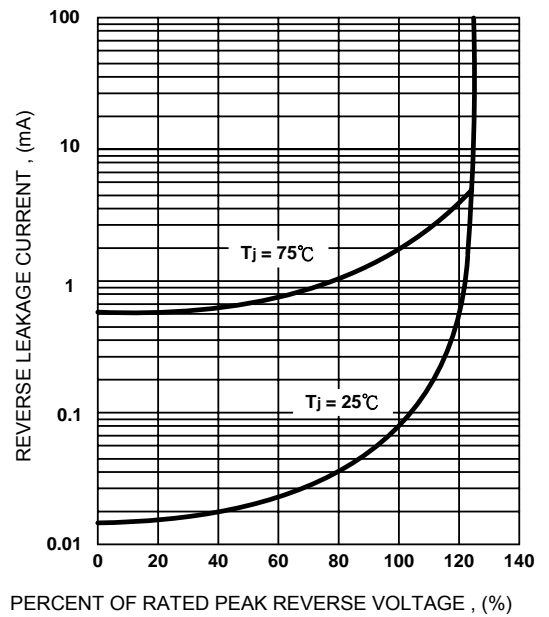
**Figure 2. Maximum Non-repetitive Surge Current**



**Figure 3. Typical Junction Capacitance**



**Figure 4. Typical Forward Characteristics**



**Figure 5. Typical Reverse Characteristics**



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