

SB1620CT THRU SB1660CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V

CURRENT: 16.0A



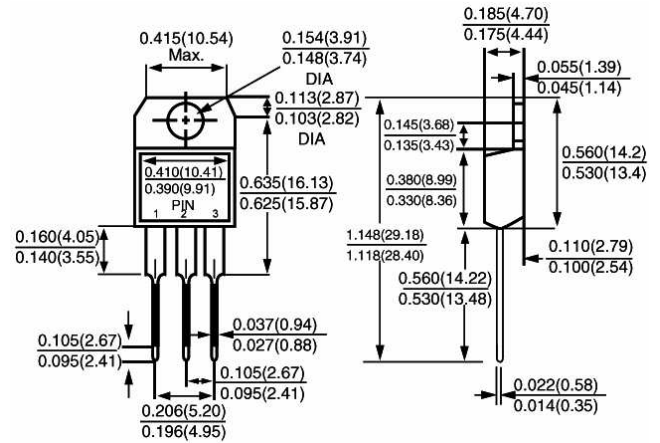
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: Common Cathode
Mounting position: any

TO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

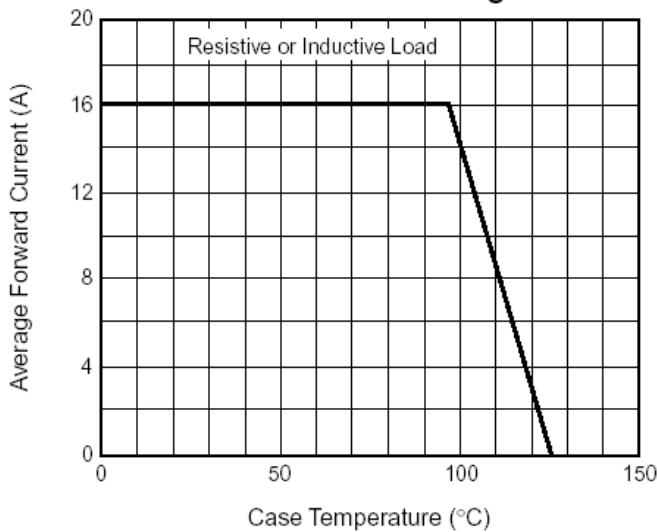
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	<u>SYMBOL</u>	<u>SB16 20CT</u>	<u>SB16 30CT</u>	<u>SB16 35CT</u>	<u>SB16 40CT</u>	<u>SB16 45CT</u>	<u>SB16 50CT</u>	<u>SB16 60CT</u>	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	35	40	45	50	60	V
Maximum RMS Voltage	Vrms	14	21	25	28	32	35	42	V
Maximum DC blocking Voltage	Vdc	20	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current	If(av)	16							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150							A
Maximum Forward Voltage at 8.0A	Vf	0.65					0.75		V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =100℃	Ir	1.0							mA mA
		30.0					50.0		
Typical Junction Capacitance (Note 1)	Cj	700					500		pF
Typical Thermal Resistance (Note 2)	R(ja)	3.0							℃/W
Operating Junction Temperature	Tj	-40 to +125					-50 to +150		℃
Storage Temperature Ramge	Tstg	-65 to +150							℃

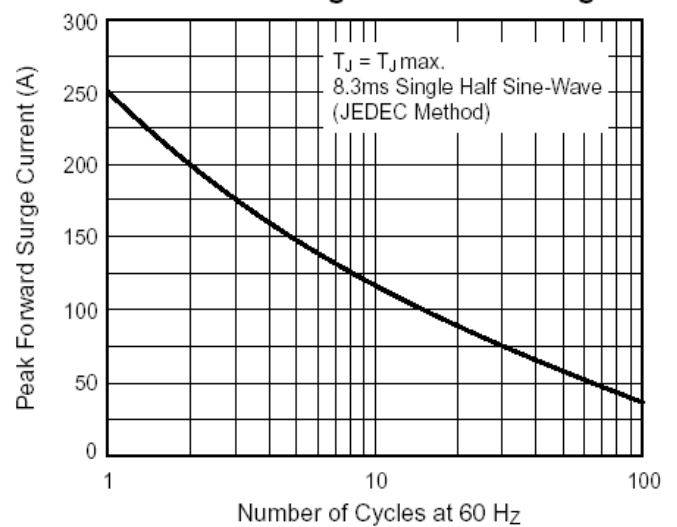
Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case

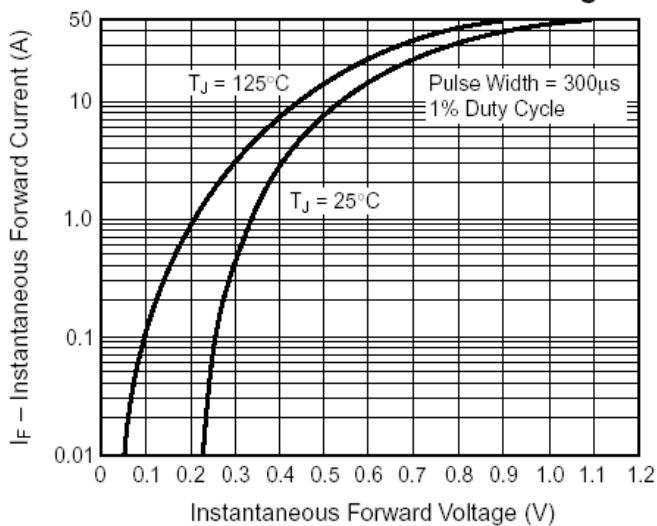
Forward Current Derating Curve



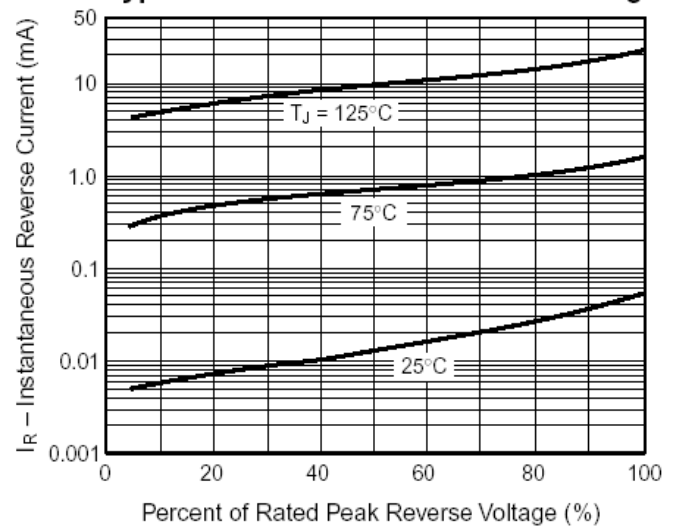
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



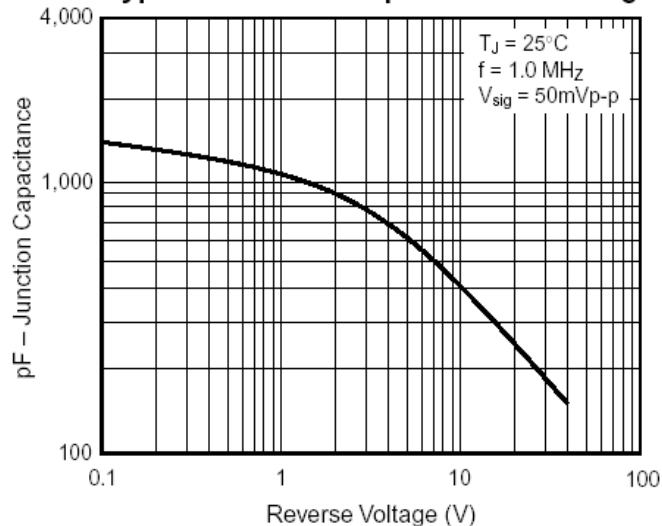
Typical Instantaneous Forward Characteristics Per Leg



Typical Reverse Characteristics Per Leg



Typical Junction Capacitance Per Leg



Typical Transient Thermal Impedance Per Leg

