

SB1620CT THRU SB1660CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V

CURRENT: 16.0A

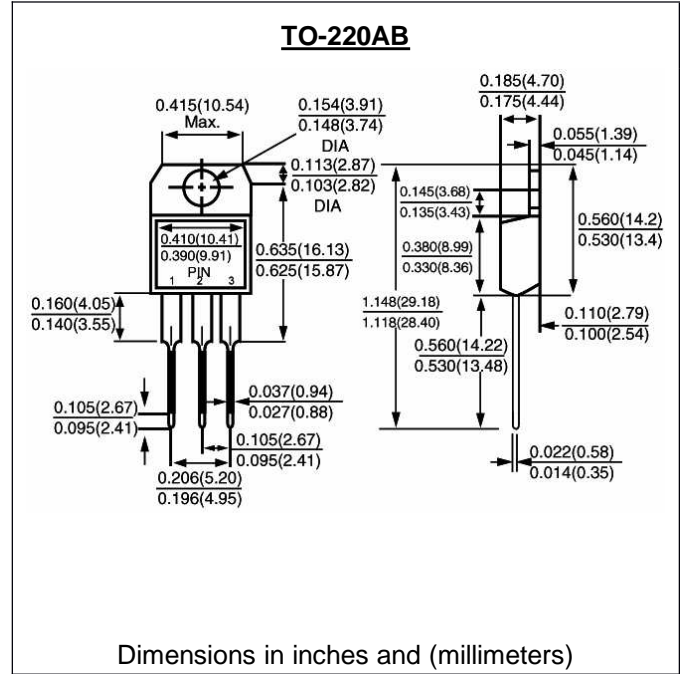


FEATURE

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

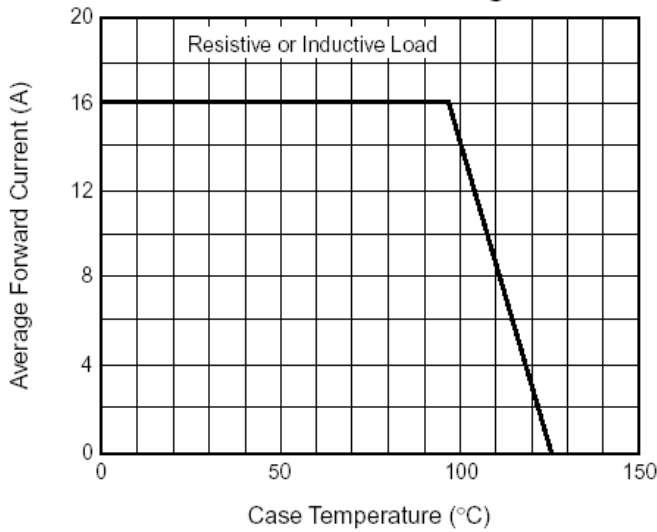
	SYMBOL	SB16 20CT	SB16 30CT	SB16 35CT	SB16 40CT	SB16 45CT	SB16 50CT	SB16 60CT	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	30	35	40	45	50	60	V
Maximum RMS Voltage	V _{rms}	14	21	25	28	32	35	42	V
Maximum DC blocking Voltage	V _{dc}	20	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current	I _{f(av)}	16							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150							A
Maximum Forward Voltage at 8.0A	V _f	0.65					0.75		V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	1.0							mA
		30.0					50.0		mA
Typical Junction Capacitance (Note 1)	C _j	700					500		pF
Typical Thermal Resistance (Note 2)	R(ja)	3.0							°C/W
Operating Junction Temperature	T _j	-40 to +125					-50 to +150		°C
Storage Temperature Range	T _{stg}	-65 to +150							°C

Note:

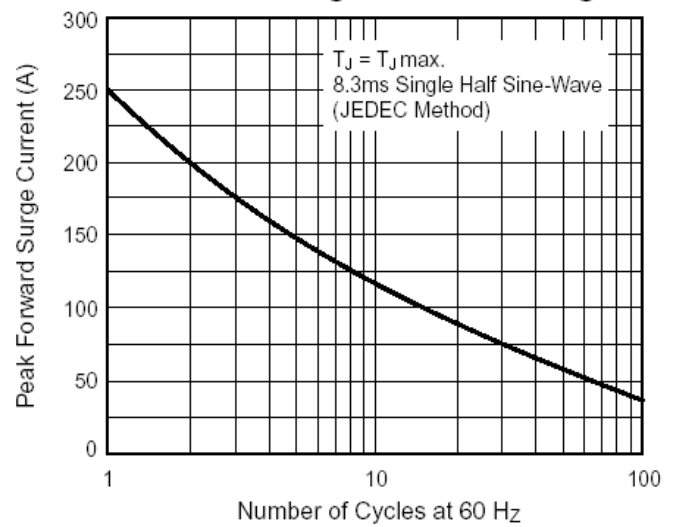
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB1620CT THRU SB1660CT

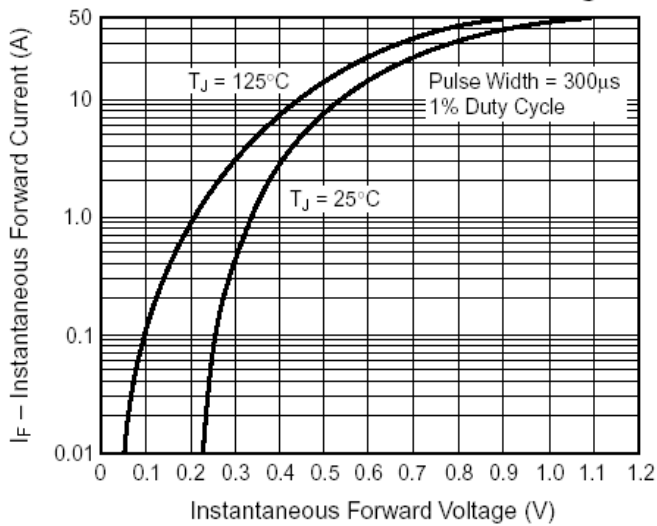
Forward Current Derating Curve



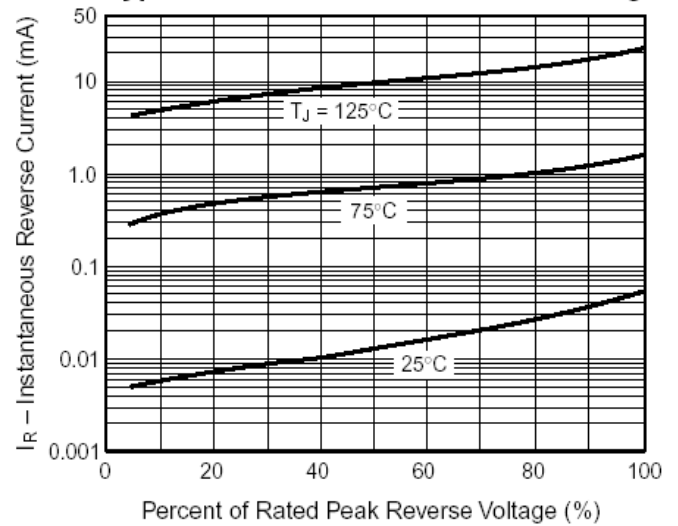
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



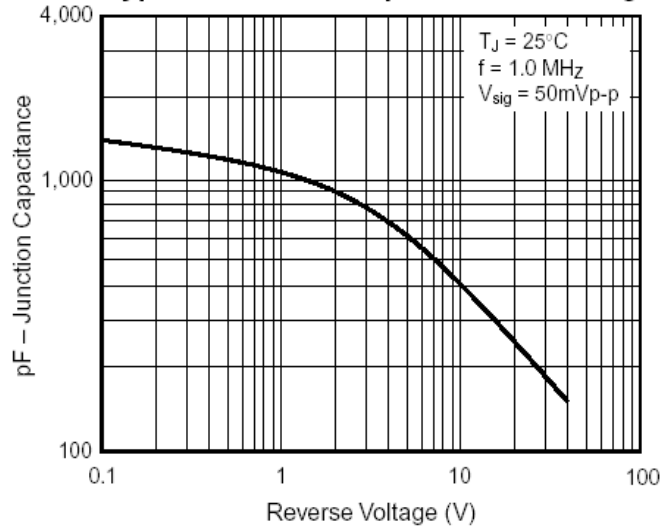
Typical Instantaneous Forward Characteristics Per Leg



Typical Reverse Characteristics Per Leg



Typical Junction Capacitance Per Leg



Typical Transient Thermal Impedance Per Leg

