SB1620CT THRU SB1660CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V **CURRENT: 16.0A**

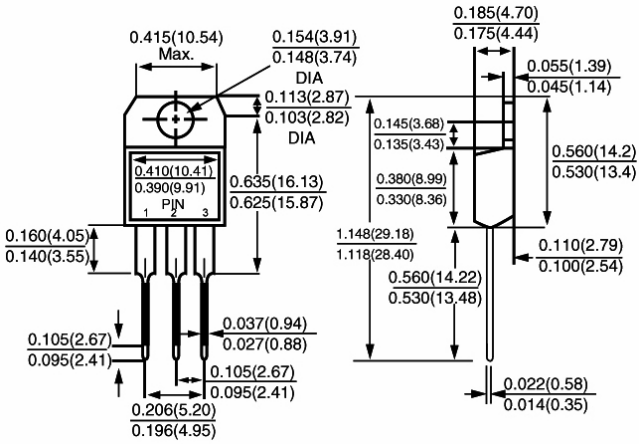
FEATURE

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

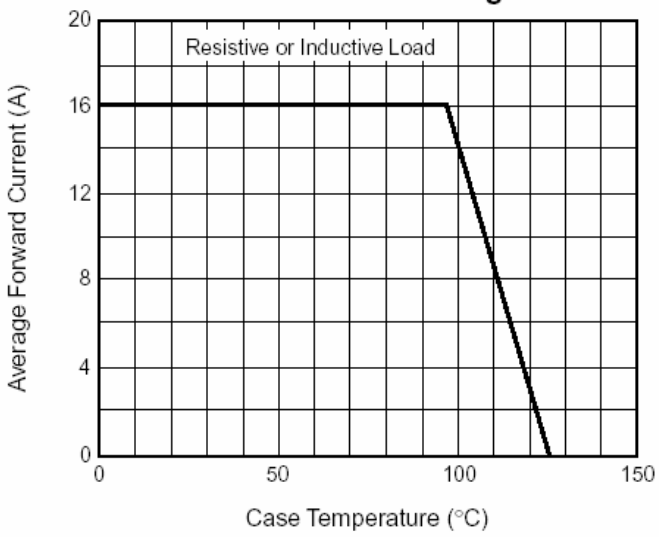
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB1620CT	SB1630CT	SB1635CT	SB1640CT	SB1645CT	SB1650CT	SB1660CT	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°C	Ir	1.0							mA
at rated DC blocking voltage Ta =100°C		30.0					50.0		mA
Typical Junction Capacitance (Note 1)	Cj	700					500		pF
Typical Thermal Resistance (Note 2)	R(ja)	3.0							°C/W
Operating Junction Temperature	Tj	-40 to +125					-50 to +150		°C
Storage Temperature Ramge	Tstg	-65 to +150							°C

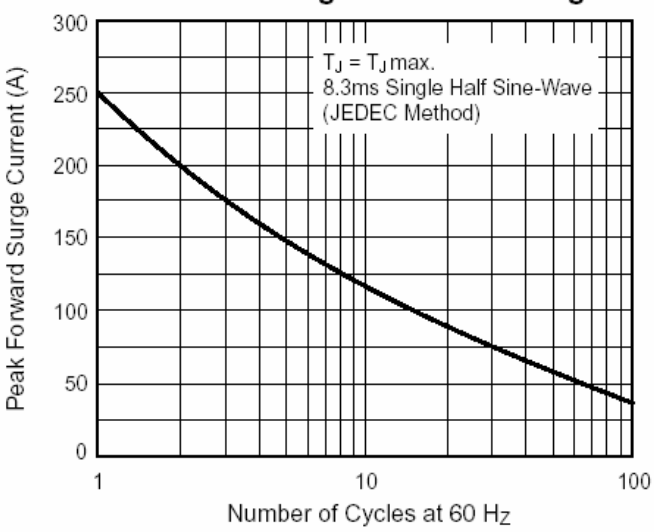
Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB1620CT THRU SB1660CT

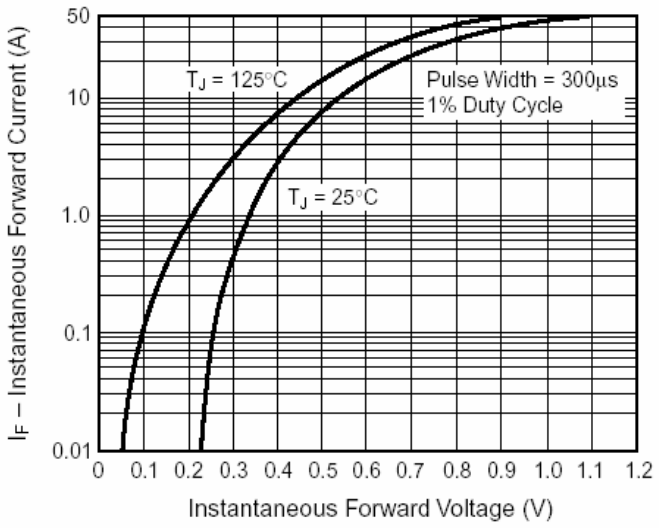
Forward Current Derating Curve



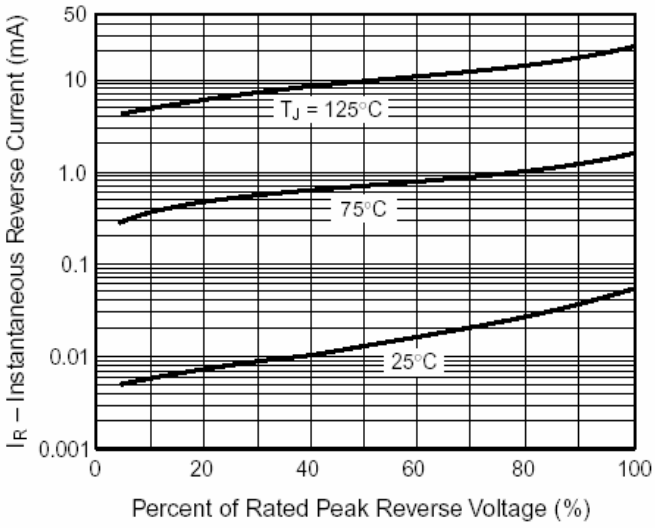
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



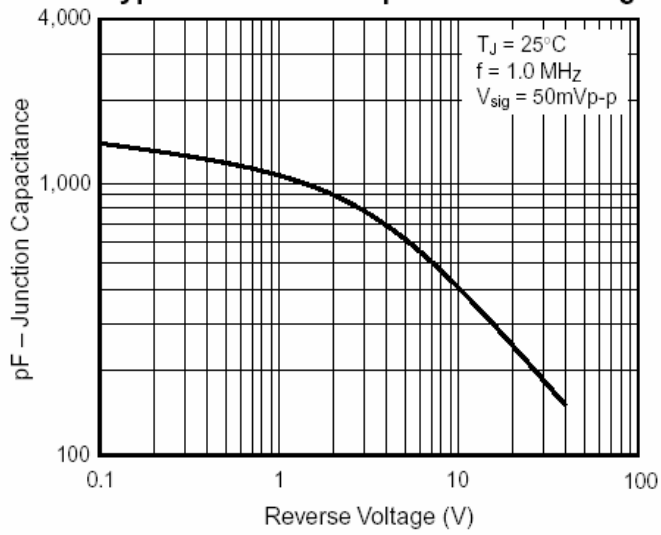
Typical Instantaneous Forward Characteristics Per Leg



Typical Reverse Characteristics Per Leg



Typical Junction Capacitance Per Leg



Typical Transient Thermal Impedance Per Leg