SB1620CT THRU SB1660CT

SCHOTTKY BARRIER RECTIFIER

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

GULF SBMI

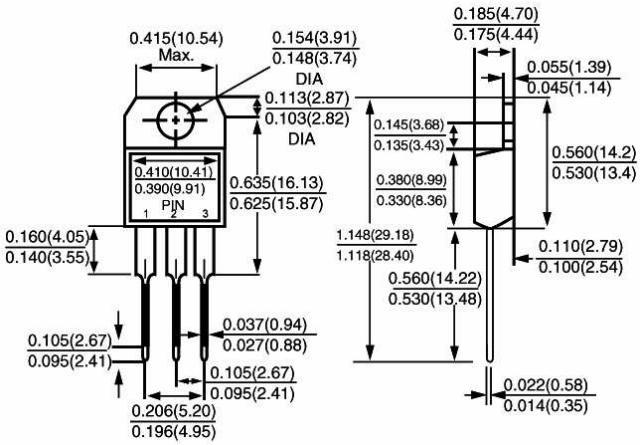
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250℃ /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℃, unless otherwise stated)

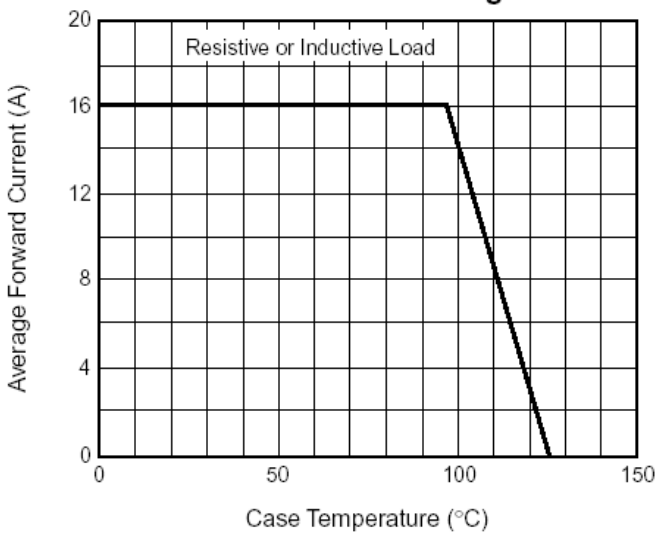
	SYMBOL	SB16 20CT	SB16 30CT	SB16 35CT	SB16 40CT	SB16 45CT	SB16 50CT	SB16 60CT	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	35	40	45	50	60	V
Maximum RMS Voltage	Vrms	14	21	25	28	32	35	42	V
Maximum DC blocking Voltage	Vdc	20	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current	If(av)	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℃	Ir	1.0							mA
at rated DC blocking voltage Ta =100℃		30.0					50.0		mA
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:

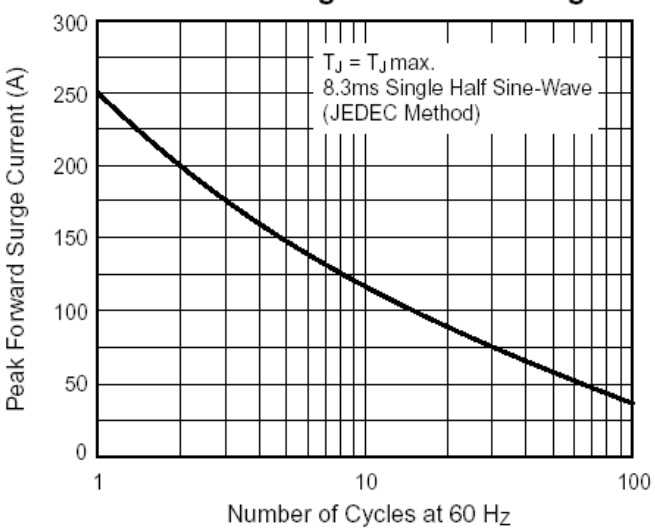
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB1620CT THRU SB1660CT

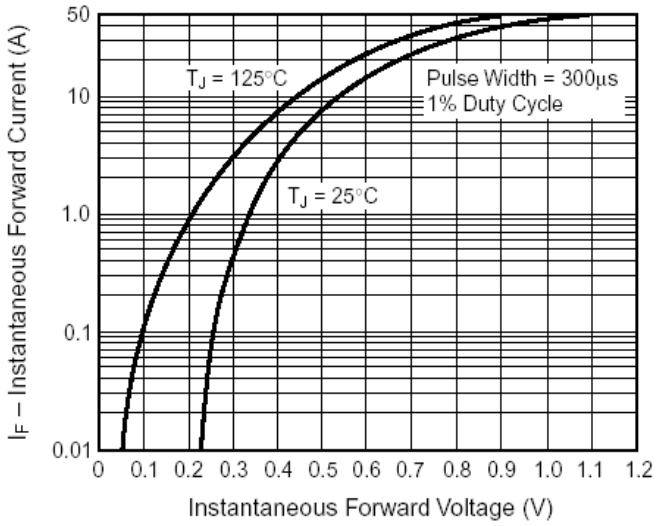
Forward Current Derating Curve



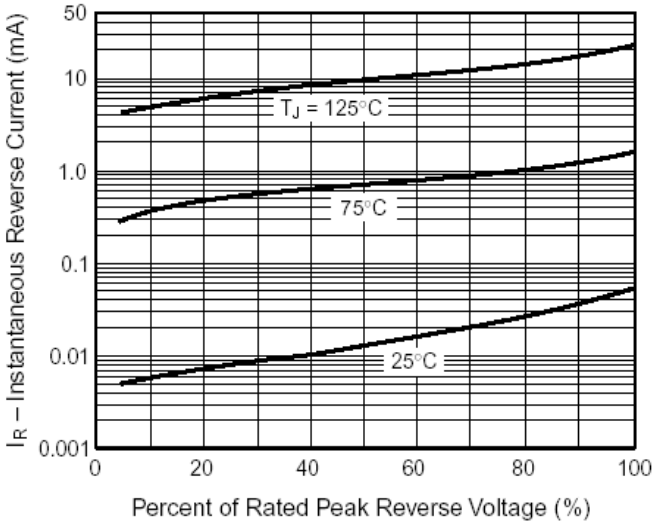
Maximum Non-Repetitive Peak Forward Surge Current Per Leg



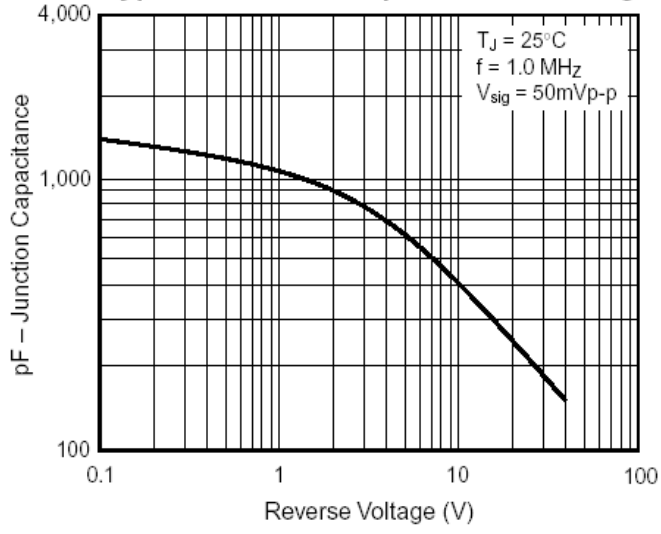
Typical Instantaneous Forward Characteristics Per Leg



Typical Reverse Characteristics Per Leg



Typical Junction Capacitance Per Leg



Typical Transient Thermal Impedance Per Leg