SB1545CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 45V

CURRENT: 15.0A

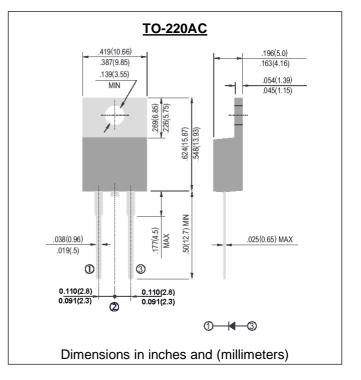
FEATURE

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





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SB1545CT	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	45	V
Maximum RMS Voltage	Vrms	31.5	V
Maximum DC blocking Voltage	Vdc	45	V
Maximum Average Forward Rectified Current at Tc=105℃	lf(av)	15	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load per leg	lfsm	150	A
Maximum Forward Voltage per leg and 25°C at 7.5A	Vf	0.84	V
Maximum Reverse Current per legTj =25 °Cat working peak reverse voltageTj =125 °C	Ir	0.1 15.0	mA
Typical Thermal Resistance per leg (Note 1)	Rth(jc)	3.0	°CM
Operating Junction and Storage Temperature Ramge	Tj Tstg	-65 to +175	C

Note:

1. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB1545CT

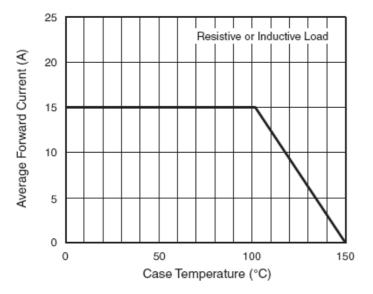


Figure 1. Forward Current Derating Curve

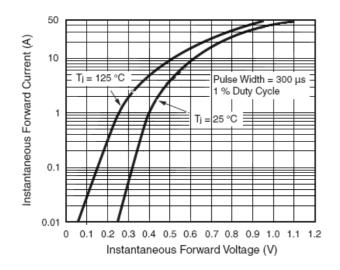


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

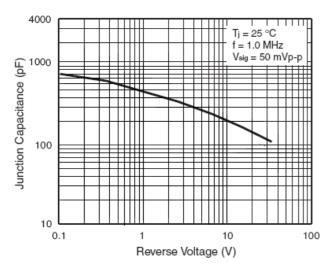


Figure 5. Typical Junction Capacitance Per Diode

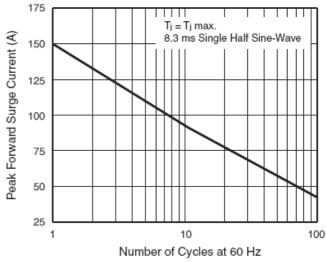


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

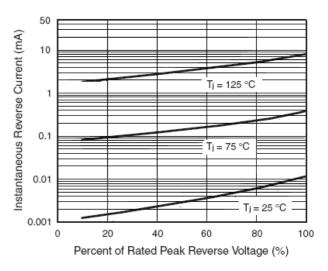


Figure 4. Typical Reverse Characteristics Per Diode

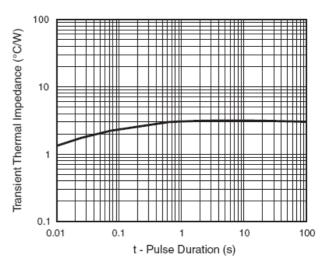


Figure 6. Typical Transient Thermal Impedance Per Diode

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