

SBS5150

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 150V

CURRENT: 5.0A

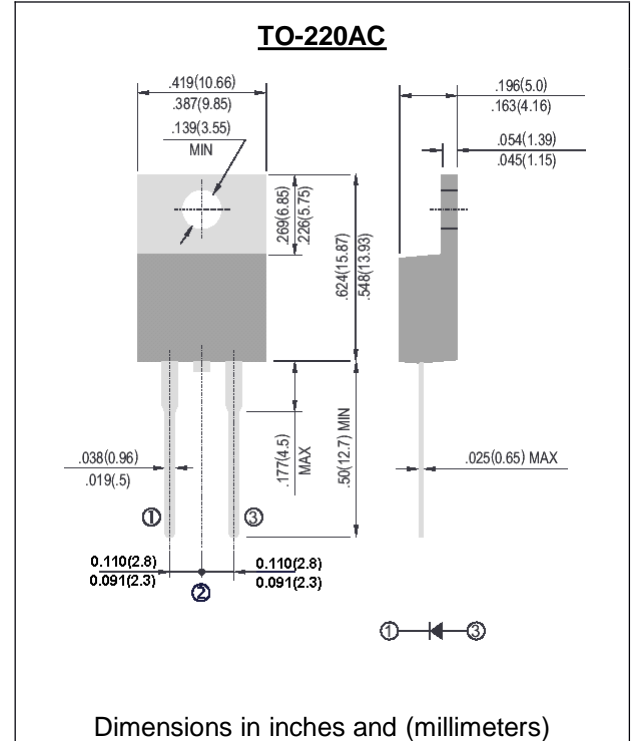


FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability

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: as marked
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	SBS5150	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	150	V
Maximum RMS Voltage	V _{rms}	105	V
Maximum DC blocking Voltage	V _{dc}	150	V
Maximum Average Forward Rectified Current 3/8" lead length	I _{f(av)}	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150.0	A
Maximum Forward Voltage at rated Forward Current	V _f	0.95	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	0.1 10.0	mA
Typical Thermal Resistance (Note 1)	R _{th(jc)}	2.5	°C/W
Storage and Operating Junction Temperature	T _{stg} ,T _j	-65 to +150	°C

Note:

1. Thermal Resistance From Junction To Case

Fig. 1 - Forward Current Derating Curve

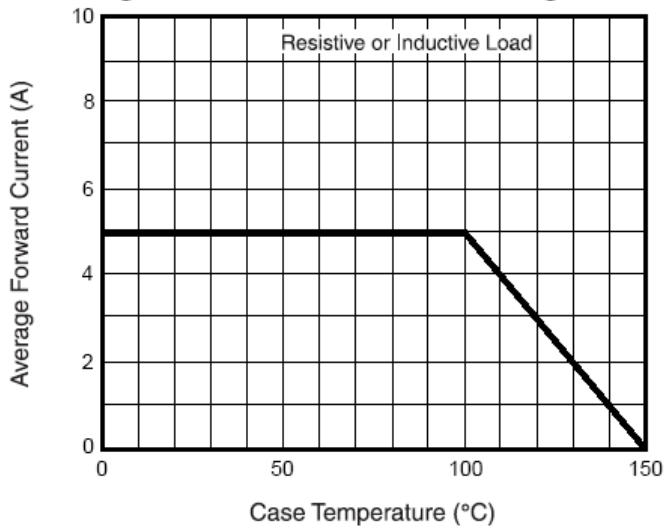


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

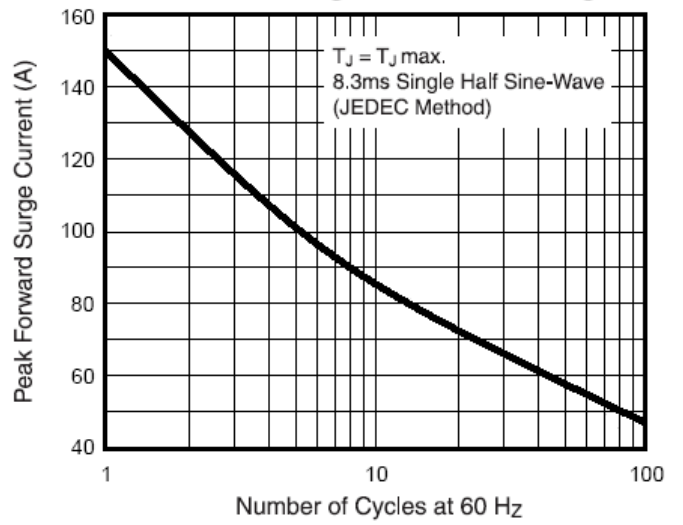


Fig. 3 - Typical Instantaneous Forward Characteristics Per Leg

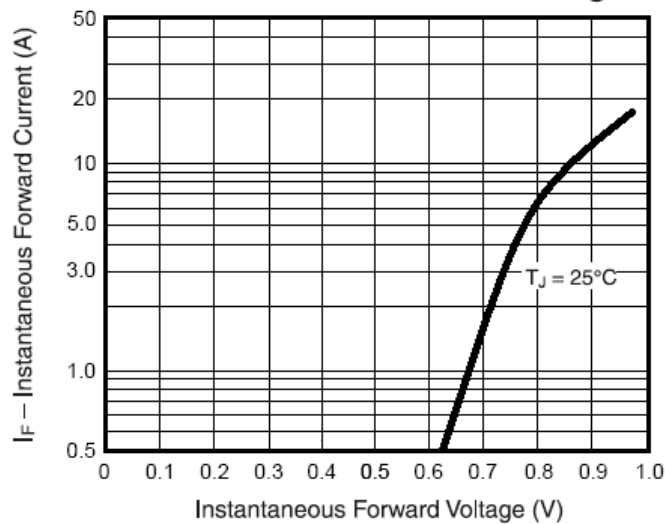


Fig. 4 - Typical Reverse Characteristics Per Leg

