

## SB3150

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 150V

CURRENT: 3.0A



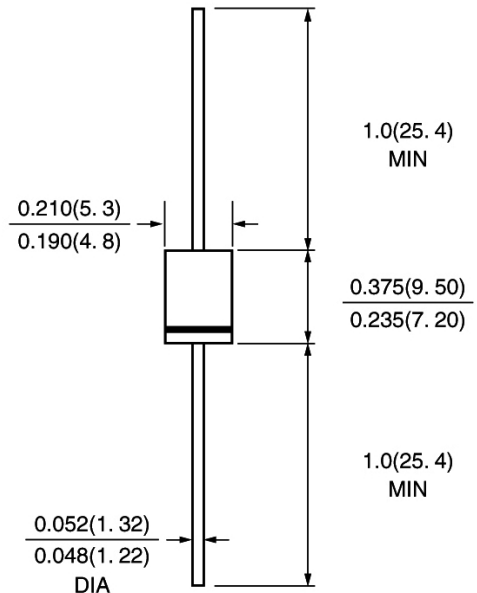
#### FEATURE

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: color band denotes cathode  
Mounting position: any

#### DO-201AD



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	SB3150	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	150	V
Maximum RMS Voltage	V <sub>rms</sub>	105	V
Maximum DC blocking Voltage	V <sub>dc</sub>	150	V
Maximum Average Forward Rectified Current 3/8" lead length	I <sub>f(av)</sub>	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	80.0	A
Maximum Forward Voltage at 3.0A (Note 1)	V <sub>f</sub>	0.95	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C	I <sub>r</sub>	0.1 2.0	mA
Typical Thermal Resistance (Note 2)	R <sub>th(ja)</sub>	50.0	°C /W
Storage and Operating Junction Temperature	T <sub>j</sub> , T <sub>stg</sub>	-65 to +150	°C

Note:

1. Pulse test: 300μs pulse width, 1% duty cycle
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

## RATINGS AND CHARACTERISTIC CURVES SB3150

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

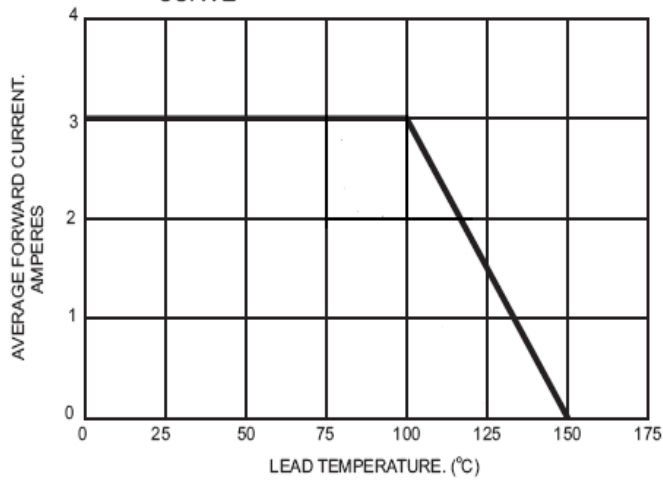


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

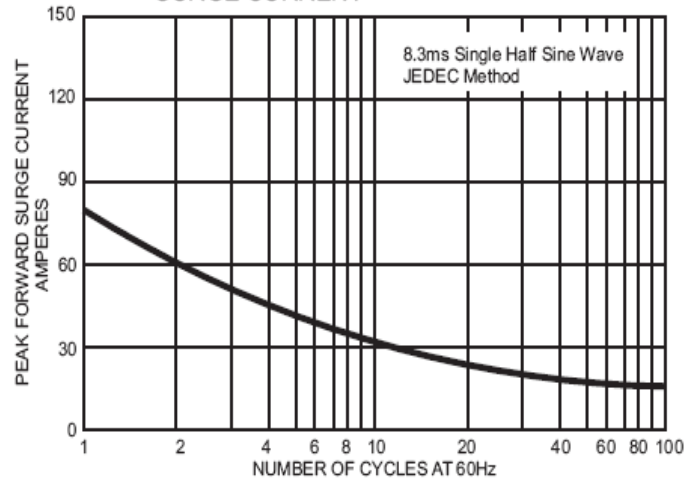


FIG.3- TYPICAL FORWARD CHARACTERISTICS

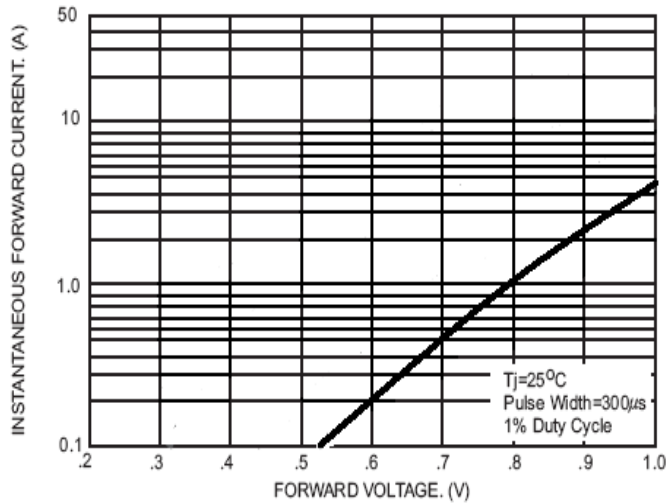


FIG.4- TYPICAL REVERSE CHARACTERISTICS

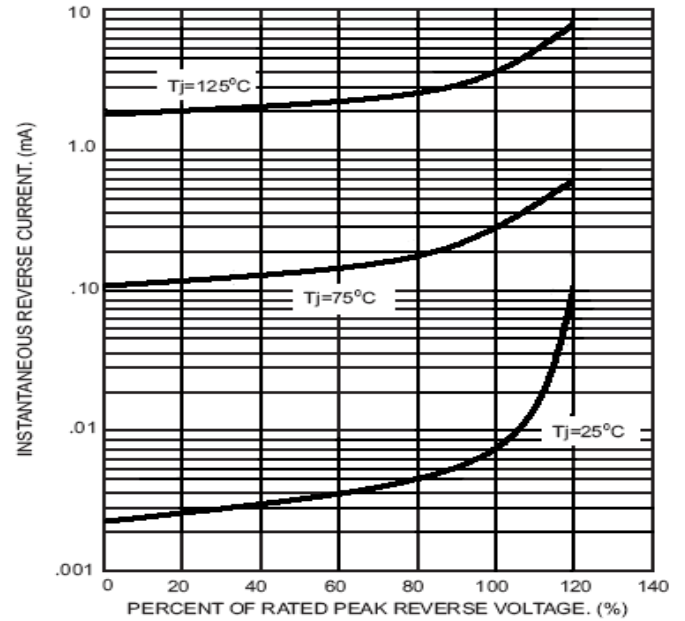


FIG.5- TYPICAL JUNCTION CAPACITANCE

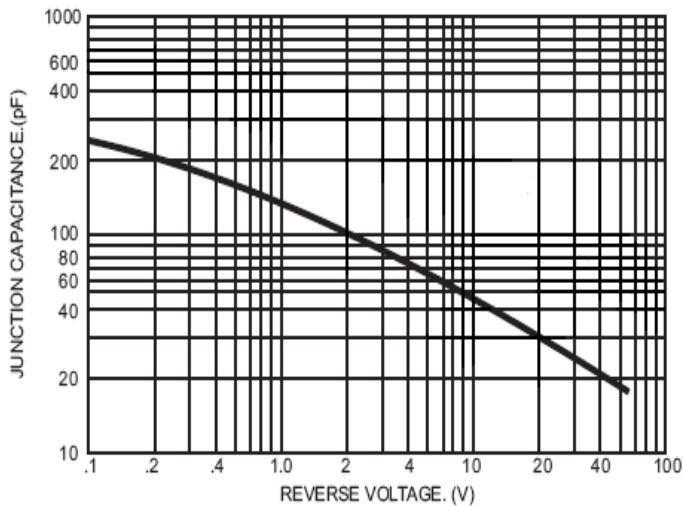


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS

