# SB3150

#### SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 150V

CURRENT: 3.0A

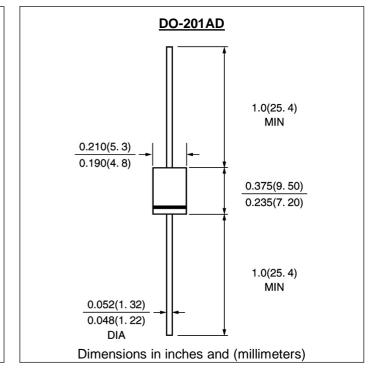


### FEATURE

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



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

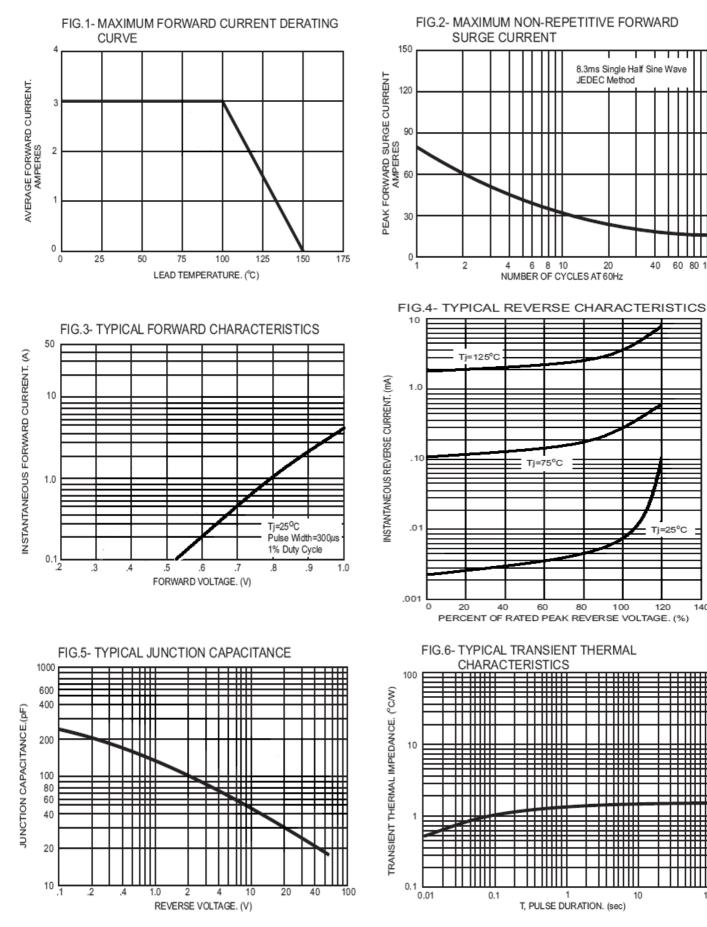
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB3150	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	150	V
Maximum RMS Voltage	Vrms	105	V
Maximum DC blocking Voltage	Vdc	150	V
Maximum Average Forward Rectified Curren lead length	t 3/8" If(av)	3.0	A
Peak Forward Surge Current 8.3ms single sine-wave superimposed on rated load	half Ifsm	80.0	A
Maximum Forward Voltage at 3.0A (No	ote 1) Vf	0.95	V
Maximum DC Reverse CurrentTa =at rated DC blocking voltageTa =12		0.1 2.0	mA
Typical Thermal Resistance (No	ote 2) Rth(ja)	50.0	°C /V
Storage and Operating Junction Temperature	Tj,Tstg	-65 to +150	ĉ

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**

Rev.A1,

www.gulfsemi.com

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40

Ti=25°C

120

140

100

60 80 100