# **SR3150**



### 3.0 AMP SCHOTTKY BARRIER RECTIFIERS



3.0 Amperes

## **FEATURES**

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Epitaxial construction

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any \* Weight: 1.10 grams

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SR3150	UNITS
Maximum Recurrent Peak Reverse Voltage	150	V
Working Peak Reverse Voitage	150	V
Maximum DC Blocking Voltage	150	V
Maximum Average Forward Rectified Current		
See Fig. 1	3.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	80	Α
Maximum Instantaneous Forward Voltage at 3.0A	0.90	V
Maximum DC Reverse Current Ta=25°C	0.05	mA
at Rated DC Blocking Voltage Ta=100°C	10	mA
Typical Junction Capacitance (Note1)	300	pF
Typical Thermal Resistance R JA (Note 2)	10	°C/W
Operating Temperature Range T <sub>J</sub>	-50 —+150	°C
Storage Temperature Range Tsrc	-65 <del></del>	°C

#### NOTES

- 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
- 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

# RATING AND CHARACTERISTIC CURVES (SR3150)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

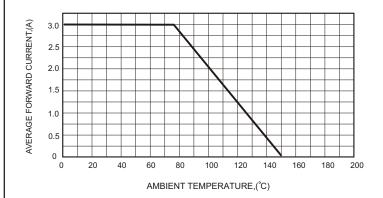
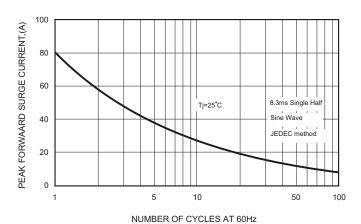


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



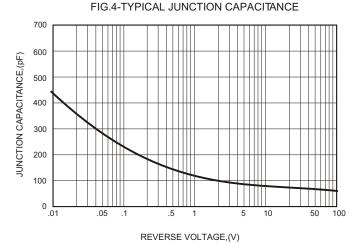


FIG.2-TYPICAL FORWARD

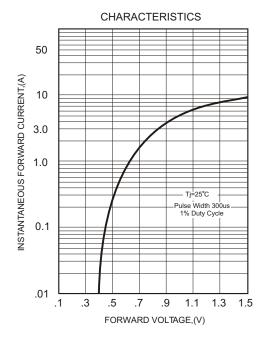


FIG.5 - TYPICAL REVERSE

