# **SM2150B** THRU **SM2200B**



## 2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



## **FEATURES**

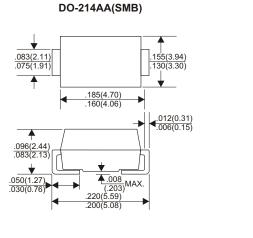
- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

## VOLTAGE RANGE 150 to 200 Volts CURRENT

2.0 Amperes



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

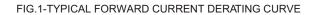
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		SM2150B	SM2200B	UNITS
Maximum Recurrent Peak Reverse Voltage		150	200	V
Maximum RMS Voltage		105	140	V
Maximum DC Blocking Voltage		150	200	V
Maximum Average Forward Rectified Current				
at TL=100°C		2.0		А
Peak Forward Surge Current, 8.3 ms single half s	ine-wave			
superimposed on rated load (JEDEC method)		50		А
Maximum Instantaneous Forward Voltage at 2.0A		0.92		V
Maximum DC Reverse Current Ta=2	5°C	0	.5	mA
at Rated DC Blocking Voltage Ta=1	00°C	1	0	mA
Typical Junction Capacitance (Note1)		170		PF
Typical Thermal Resistance RθJL (Note 2)		15		°C/W
Operating Temperature Range T <sub>J</sub>		-65 — +150		°C
Storage Temperature Range Tsтс		-65 <del></del>		°C

#### NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.

#### RATING AND CHARACTERISTIC CURVES (SM2150B THRU SM2200B)



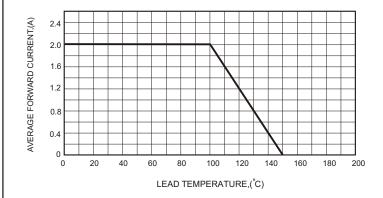


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

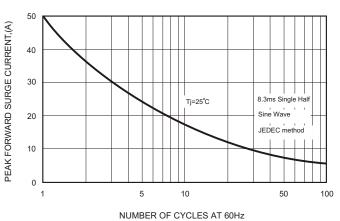


FIG.4-TYPICAL JUNCTION CAPACITANCE

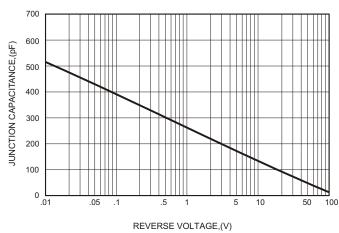


FIG.2-TYPICAL FORWARD

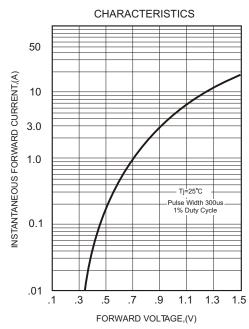


FIG.5 - TYPICAL REVERSE

