



YEA SHIN TECHNOLOGY CO., LTD

SR315-A THRU SR320-A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE- 150 to 200 Volts CURRENT- 3.0 Amperes



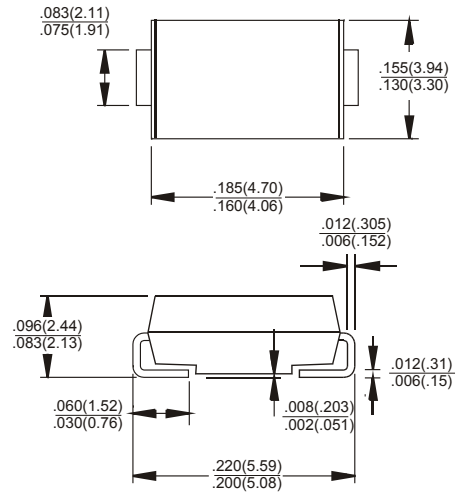
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
 - For surface mounted applications
 - Low profile package
 - Built-in strain relief
 - Metal to silicon rectifier. majority carrier conduction
 - Low power loss,high efficiency
 - High surge capacity
 - For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
 - High temperature soldering guaranteed: 260°C /10 seconds at terminals
- AEC-Q101 qualified

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic
 Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes positive end (cathode)
 Standard packaging: 12mm tape (EIA-481)
 Weight: 0.003 ounce, 0.093 gram

SMB/DO-214AA Unit:inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Resistive or inductive load.

	SYMBOLS	SR315	SR320	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	200	V
Maximum RMS Voltage	V _{RMS}	105	140	V
Maximum DC Blocking Voltage	V _{DC}	150	200	V
Maximum Average Forward Rectified Current (See figure 1)	I(AV)	3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80.0		A
Maximum Instantaneous Forward Voltage at 3.0A	V _F	0.90	0.92	V
Maximum DC Reverse Current Ta= 25°C at Rated DC Blocking Voltage Ta= 100°C	I _R	0.2 5		mA
Maximum Thermal Resistance	RθJC	35		°C/W
Typical Junction Capacitance (NOTE1)	C _J	80		pF
Operating and Storage Temperature Range	T _J	-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0Vdc.

DEVICE CHARACTERISTICS

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FIG. 1-Typical Forward Current Derating Curve

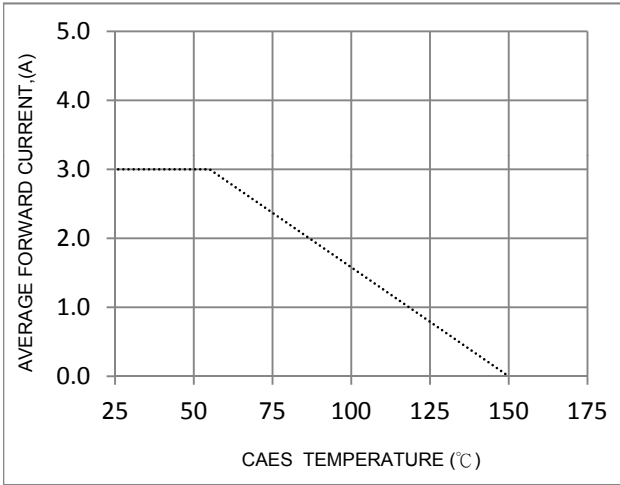


FIG. 2-Typical Forward Characteristics

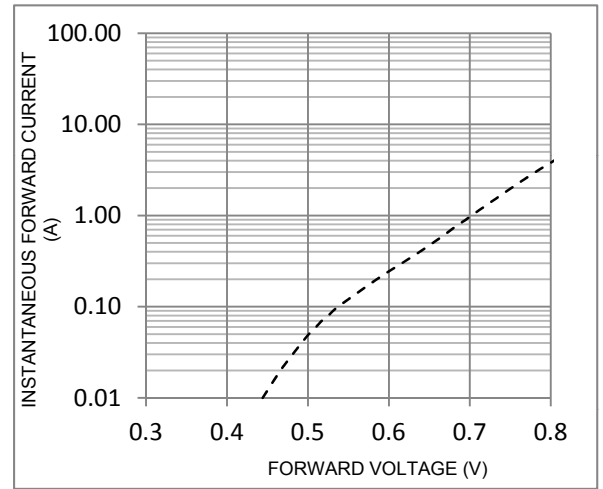


FIG. 3-Maximum Non-Repetitive Forward Surge Current

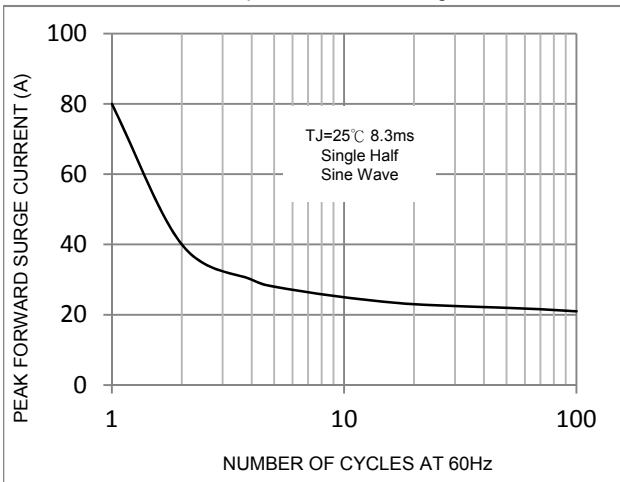


FIG. 4-Typical Reverse Characteristics

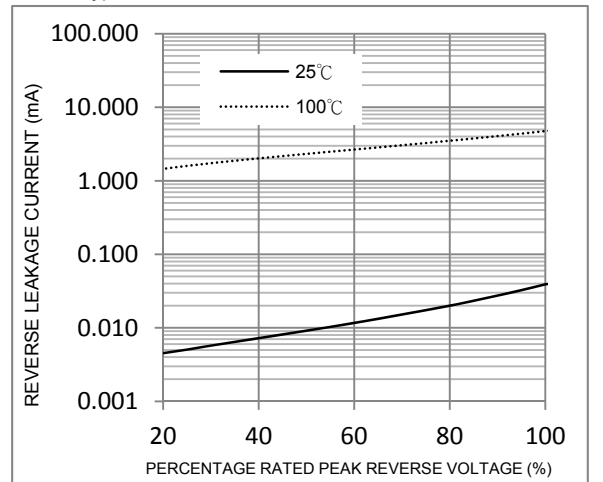


FIG. 5-Typical Junction Capacitance

