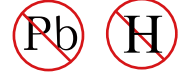




YEA SHIN TECHNOLOGY CO., LTD

SS32L THRU SS320L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

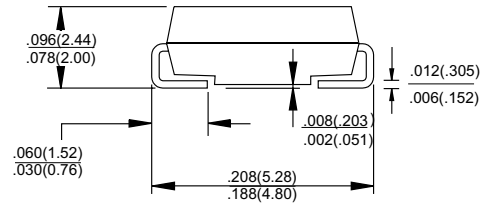
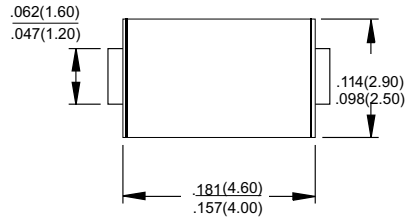


VOLTAGE- 20 to 200 Volts CURRENT- 3.0 Amperes

**FEATURES**

SMA/DO-214AC Unit:inch(mm)

- 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 : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request



**MECHANICAL DATA**

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load  
 For capacitive load derated current by 20%

	SYMBOLS	SS32L	SS33L	SS34L	SS345L	SS35L	SS36L	SS38L	SS310L	SS315L	SS320L	UNITS
Marking Code		SS32L	SS33L	SS34L	SS345L	SS35L	SS36L	SS38L	SS310L	SS315L	SS320L	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current at TL=100 °C	IF(AV)	3										A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80										A
Maximum Instantaneous Forward Voltage at 3A	VF	0.55			0.70		0.85		0.92			V
Maximum DC Reverse Current Ta= 25° C	IR	0.1						0.05				mA
at Rated DC Blocking Voltage Ta=100° C		10						5				
Typical Junction Capacitance (Note 1)	CJ	110						70				pF
Maximum Thermal Resistance (Note 2)	RθJA	55										°C/W
Operating Temperature Range	TJ	-55 to +150										°C
Storage Temperature Range	TSTG	-55 to +150										°C

NOTES:

1. Measured at 1.0MHz and Applied reverse Voltage of 4.0V D.C.
2. Device mounted on FR-4 substrate, 1" \* 1", 2oz, single-sided. PC boards with 0.1" \* 0.15" copper pad.

# DEVICE CHARACTERISTICS

## SS32L THRU SS320L

Fig. 1 Forward Current Derating Curve

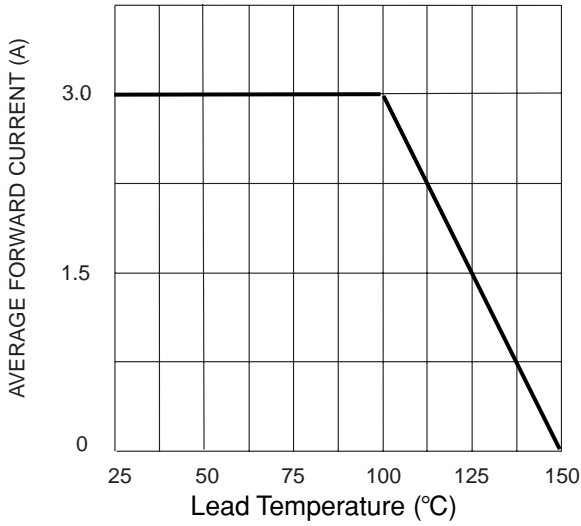


Fig. 2 Typ. Forward Characteristics

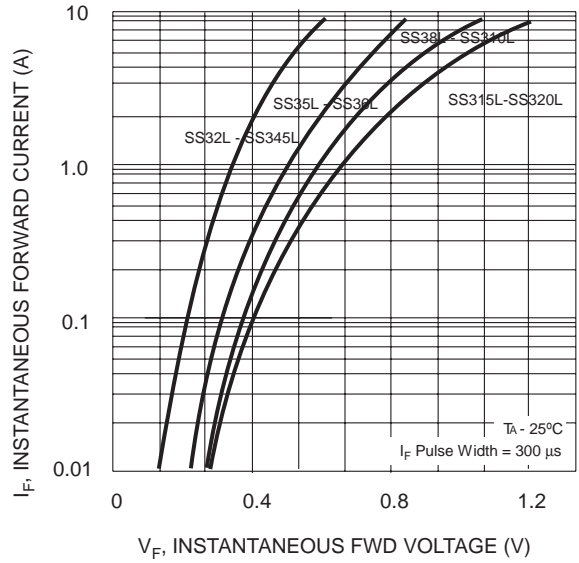


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

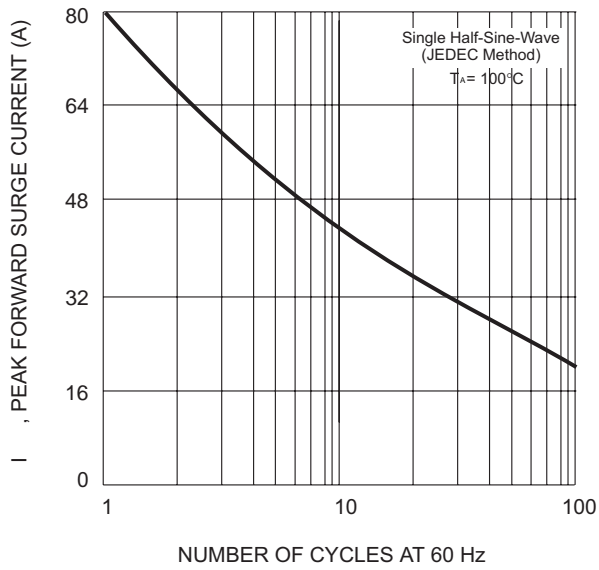


Fig. 4 Typical Reverse Characteristics (per element)

