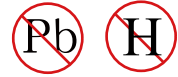




YEA SHIN TECHNOLOGY CO., LTD

SS32-A THRU SS320-A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

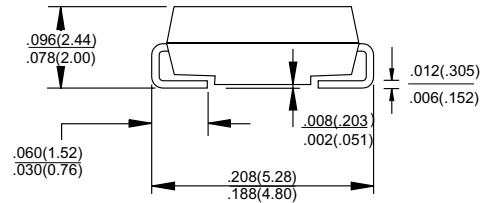
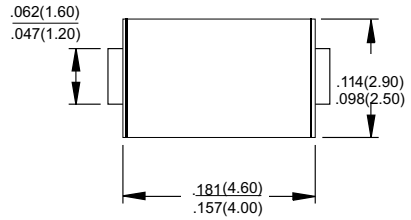


VOLTAGE- 20 to 200 Volts CURRENT- 3.0 Amperes

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 : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request
- AEC-Q101 qualified

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



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)
- Standard packaging: 12mm tape (EIA-481)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	SS315	SS320	UNITS
Marking Code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	SS315	SS320	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	150	200	V
Maximum Average Forward Rectified Current at TL (See figure 1)	I(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 (Note 1)	VF	0.50		0.70		0.85		0.90		0.92		V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	IR	0.5					20					mA
Maximum Thermal Resistance (Note 2)	RθJL	17										°C/W
	RθJA	55										
	RθJC	20										
Typical Junction capacitance	CJ	300										pF
Operating Temperature Range	TJ	-55 to +150										°C
Storage Temperature Range	TSTG	-55 to +150										°C

NOTES:

- 1.Pulse Test with PW =300us, 2% Duty Cycle.
- 2.Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.

DEVICE CHARACTERISTICS

SS32-A THRU SS320-A

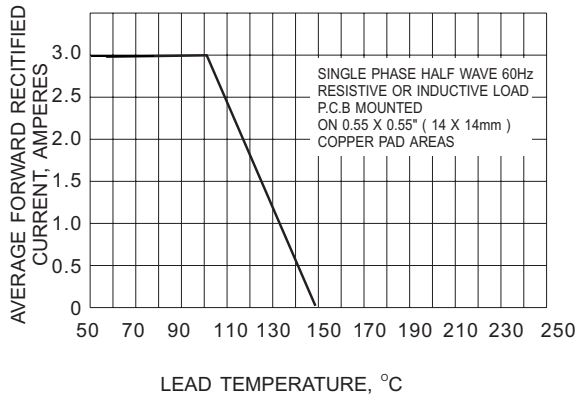


Fig.1- FORWARD CURRENT DERATING CURVE

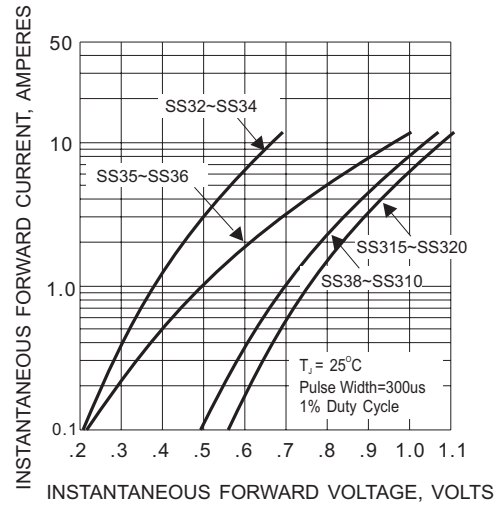


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

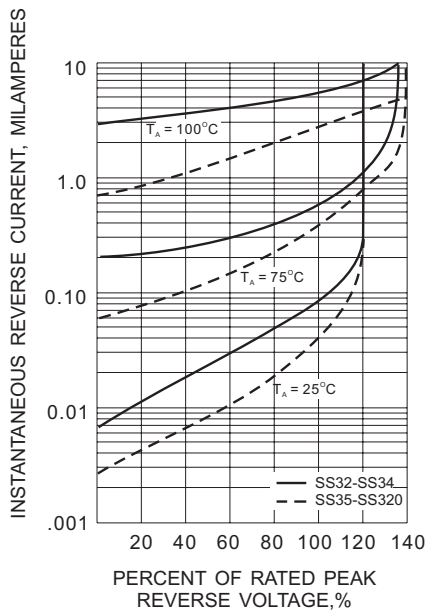


Fig.3- TYPICAL REVERSE CHARACTERISTIC

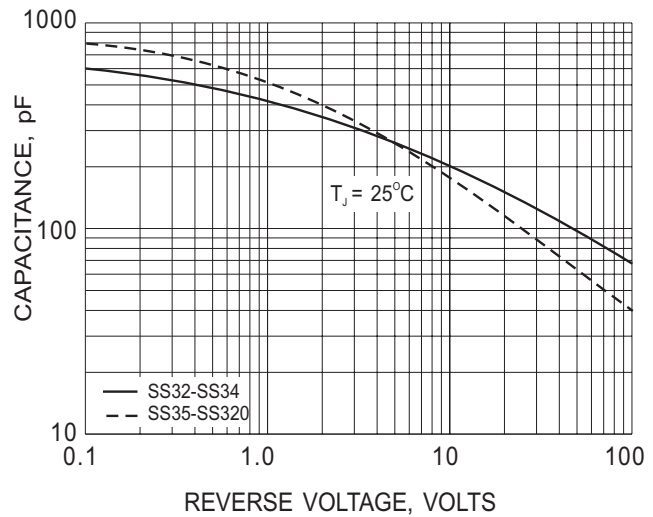


Fig.4- TYPICAL JUNCTION CAPACITANCE

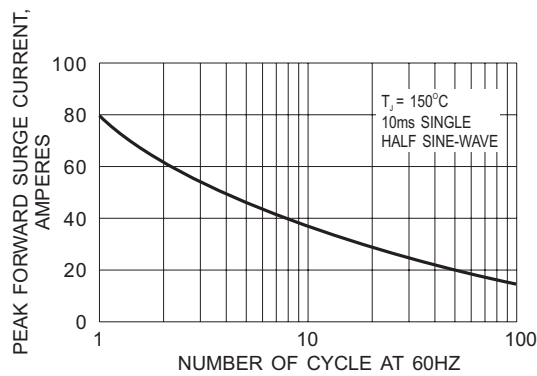


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT