

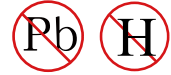


YEA SHIN TECHNOLOGY CO., LTD

SR32 THRU SR310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE- 20 to 100 Volts CURRENT- 3.0 Amperes



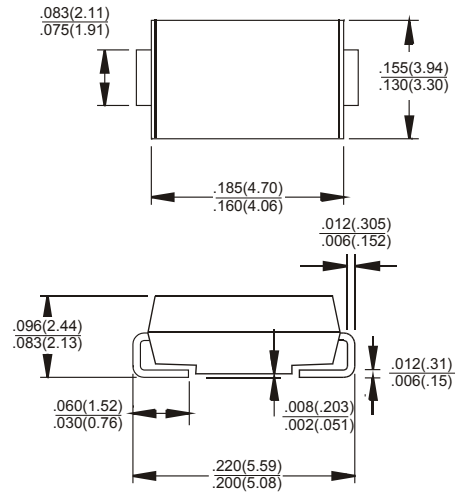
FEATURES

- 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

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)

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	SR32	SR33	SR34	SR345	SR35	SR36	SR38	SR39	SR310	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20.0	30.0	40.0	45.0	50.0	60.0	80.0	90.0	100.0	V	
Maximum RMS Voltage	V _{RMS}	14.0	21.0	28.0	32.0	35.0	42.0	56.0	63.0	70.0	v	
Maximum DC Blocking Voltage	V _{DC}	20.0	30.0	40.0	45.0	50.0	60.0	80.0	90.0	100.0	v	
Maximum Average Forward Rectified Current at T _L (See figure 1)	I(AV)	3.0									A	
Peak Forward Surge Current 8.3ms single half sine-wave superim-posed on rated load (JEDEC method)	I _{FSM}	80.0									A	
Maximum Instantaneous Forward Voltage at 3.0A (Note 1)	V _F	0.50			0.75			0.85			V	
Maximum DC Reverse Current (Note 1) Ta= 25°C	I _R	0.5										mA
at Rated DC Blocking Voltage Ta=100°C		20.0										mA
Maximum Thermal Resistance(Note 2)	R _{θJL}	17.0										°C/W
	R _{θJA}	55.0										
Operating Temperature Range	T _J	-55 to +150									°C	
Storage Temperature Range	T _{STG}	-55 to +150									°C	

NOTES:
 A.Pulse Test with PW =300µsec, 2% Duty Cycle.
 B.Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.

DEVICE CHARACTERISTICS

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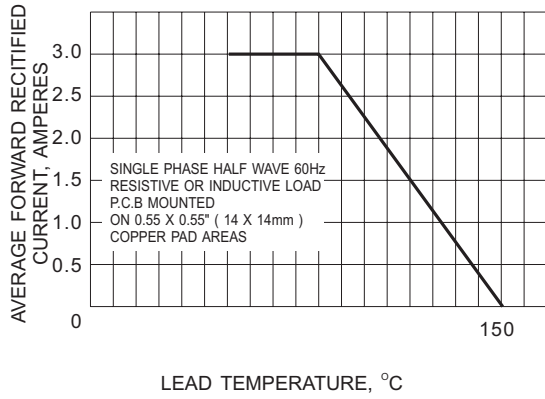


Fig.1- FORWARD CURRENT DERATING CURVE

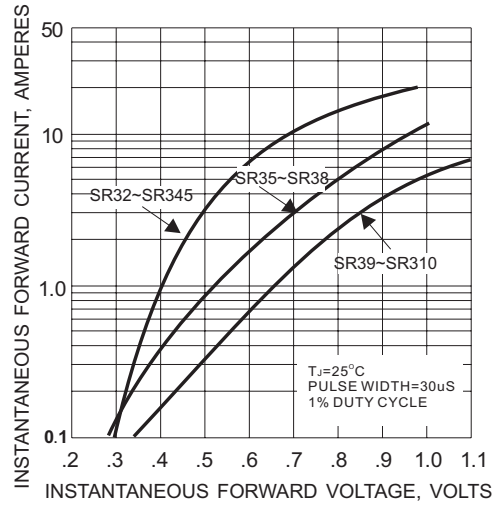


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

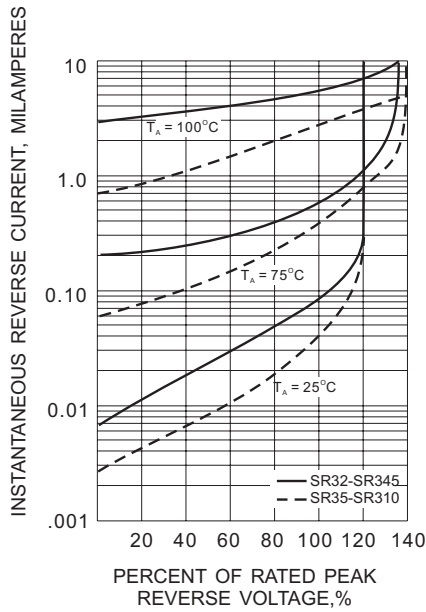


Fig.3- TYPICAL REVERSE CHARACTERISTIC

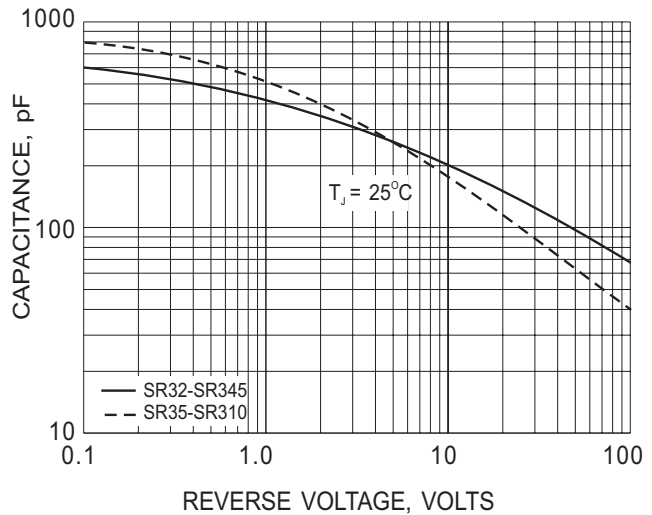


Fig.4- TYPICAL JUNCTION CAPACITANCE

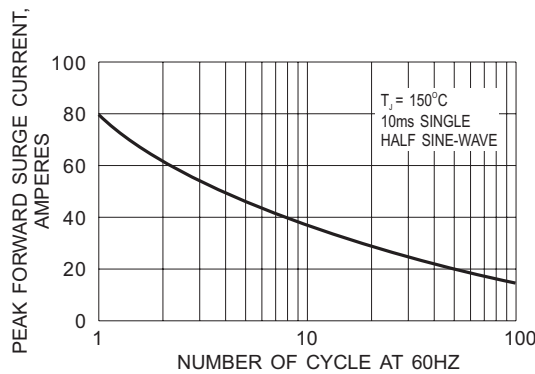


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT