

SS32 THUR SS310

SS32 THUR SS310 Schottky Barrier Rectifiers

General description

3.0Amp Surface Mounted Schottky Barrier Rectifiers

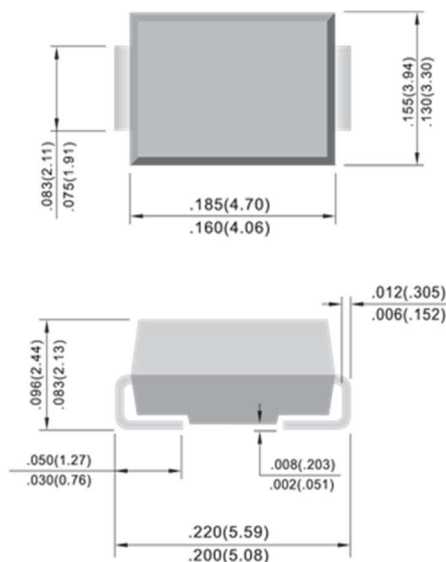
FEATURES

- Flammability Classification 94V-O
- Plastic package has Underwriters Laboratory
- For surface mounted applications
- Built-in strain relief
- High surge capacity
- High temperature soldering guaranteed:
250 C/10 seconds at terminals Moisture Sensitivity Level: 1

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202G, Method 208
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.003 ounce, 0.093 gram

SMB/DO214AA



Device Name : SS 32 - SS 310

■ Color Band Denotes Cathode

Maximum Ratings And Electrical Characteristics

Characteristic	Symbol	SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	64	71	V
Average Rectified Output Current	I _O	3.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100								A
Forward Voltage @I _F = 3.0A	V _{FM}	0.55			0.75		0.85			V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.5 20								mA
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{JA}	55								K/W
Typical junction capacitance	C _J	500			300					pF
Operating Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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Rating And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

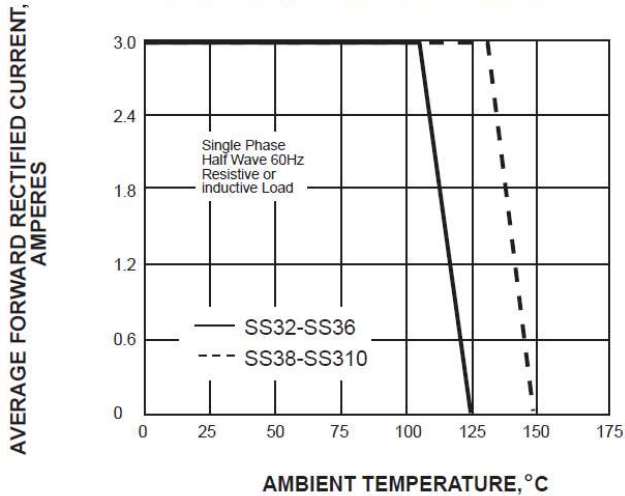


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

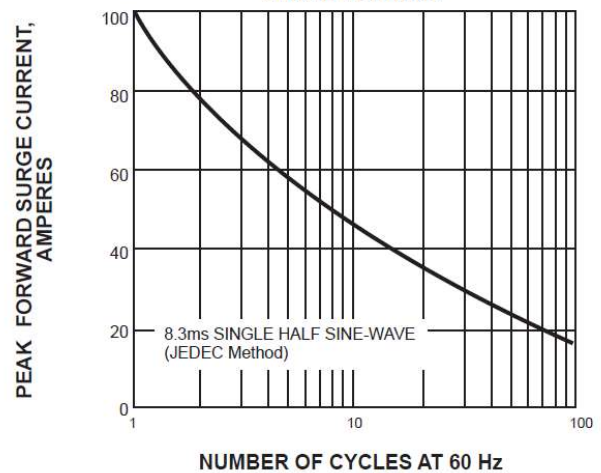


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

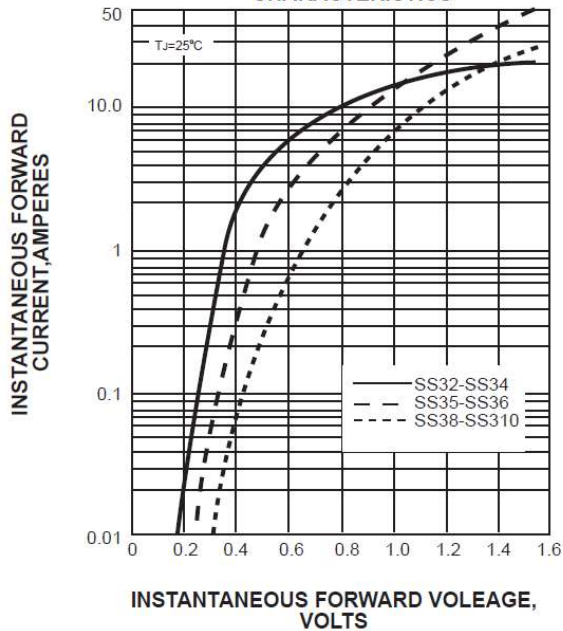


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

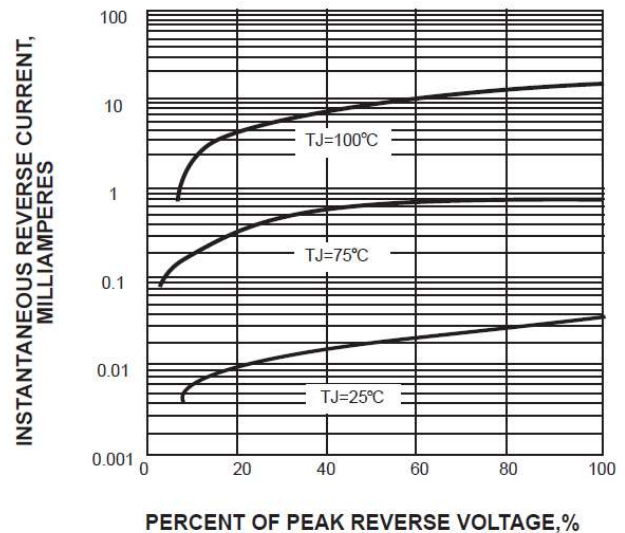


FIG. 5-TYPICAL JUNCTION CAPACITANCE

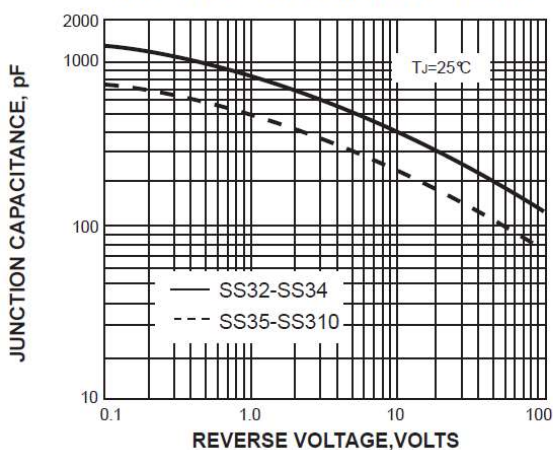
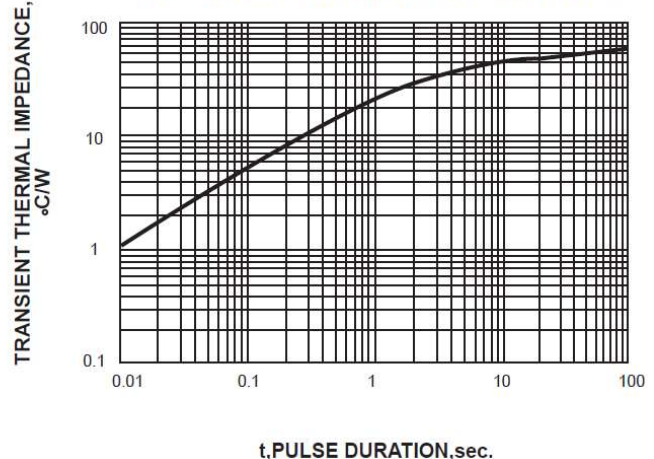


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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