

# SS32 THUR SS310

## SS32 THUR SS310 Schottky Barrier Rectifiers

### General description

3.0Amp Surface Mounted Schottky Barrier Rectifiers

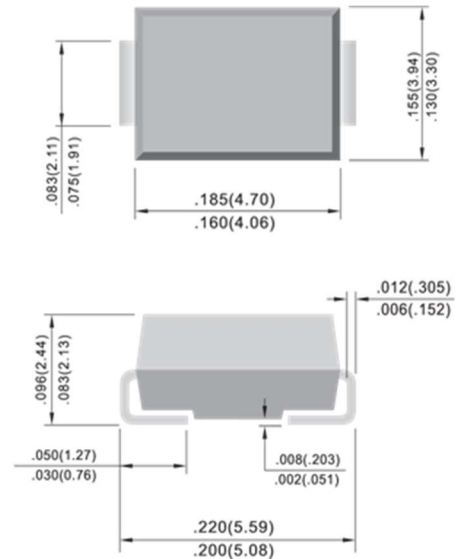
### FEATURES

- 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	$V_{RRM}$									
Working Peak Reverse Voltage	$V_{RWM}$	20	30	40	50	60	80	90	100	V
DC Blocking Voltage	$V_R$									
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 @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 100^\circ C$	$I_{RM}$	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								$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150								$^\circ C$

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

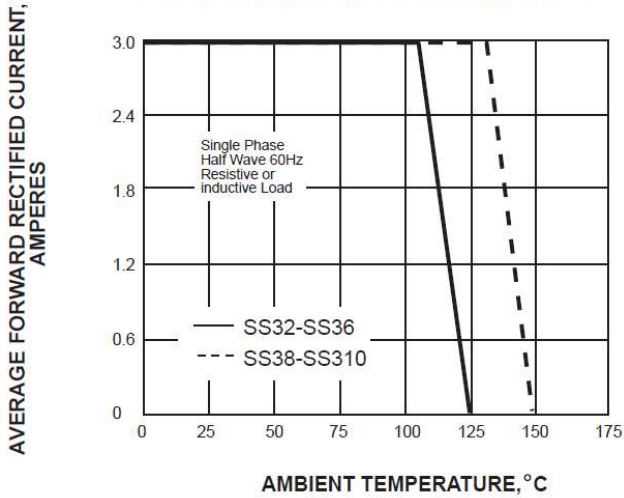


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

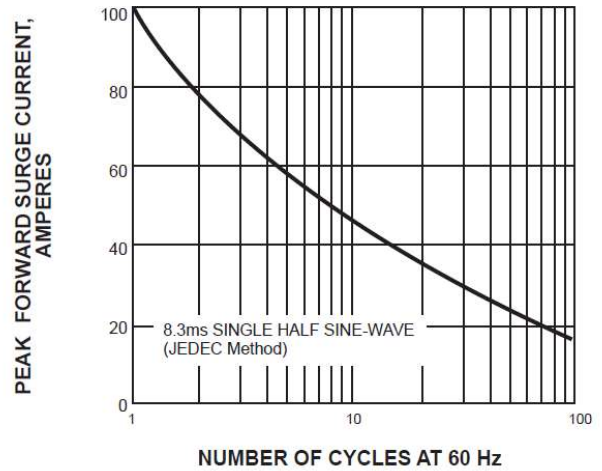


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

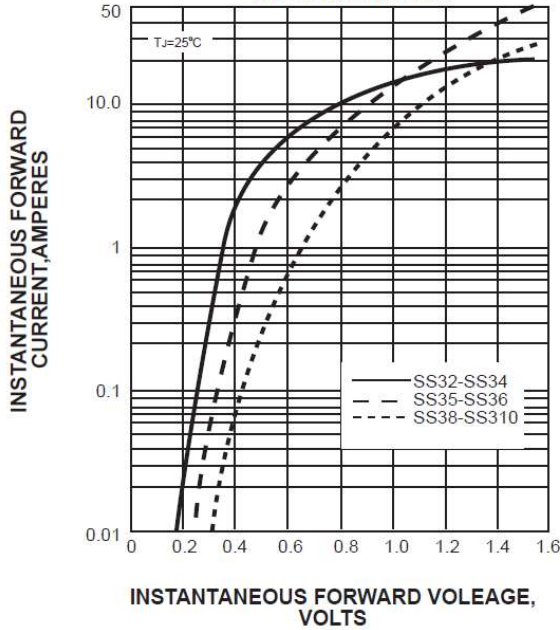


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

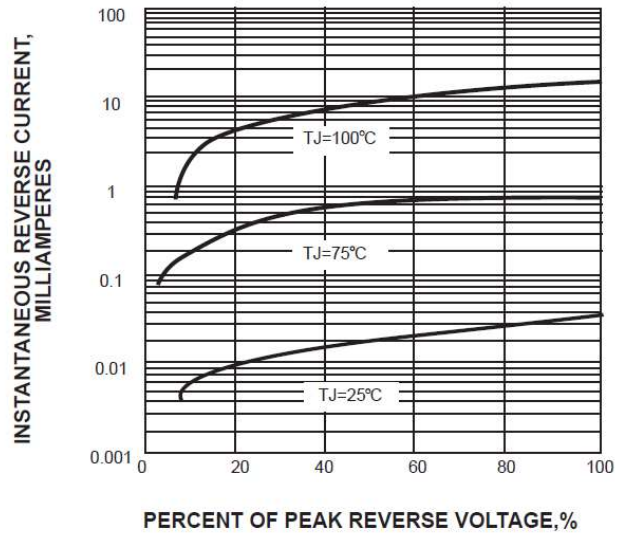


FIG. 5-TYPICAL JUNCTION CAPACITANCE

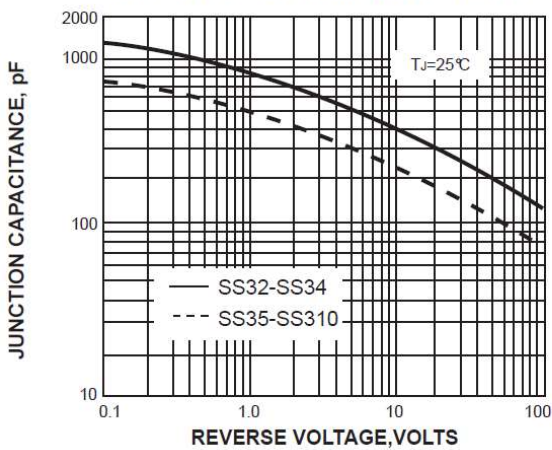
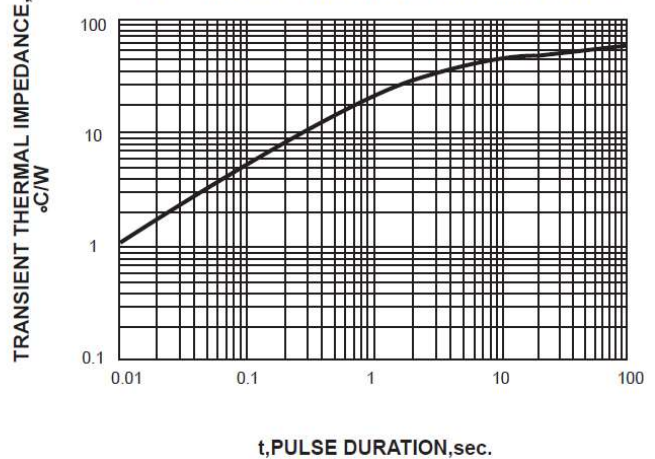


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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