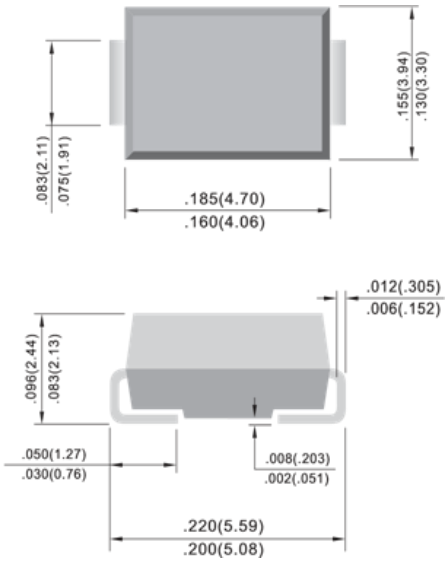
SS52 THUR SS510
Schottky Barrier Rectifiers

General description
5.0Amp 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

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



Maximum Ratings And Electrical Characteristics

Characteristic	Symbol	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	Unit
Marking Code	Mark	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	N/A
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	5.0								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 = 5.0A	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}	50								K/W
Typical junction capacitance	C_J	200								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.

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Rating And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

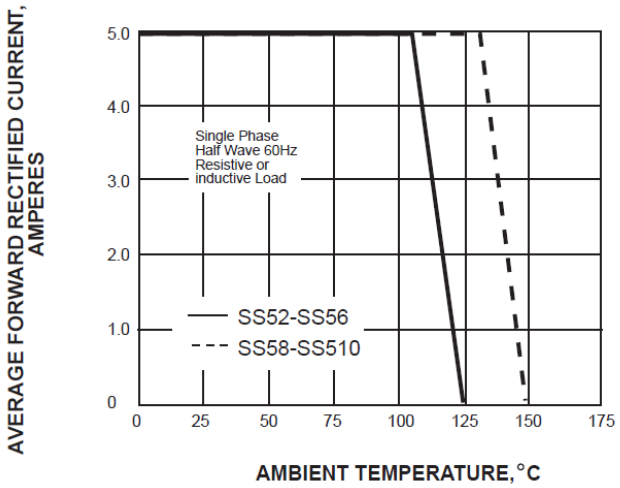


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

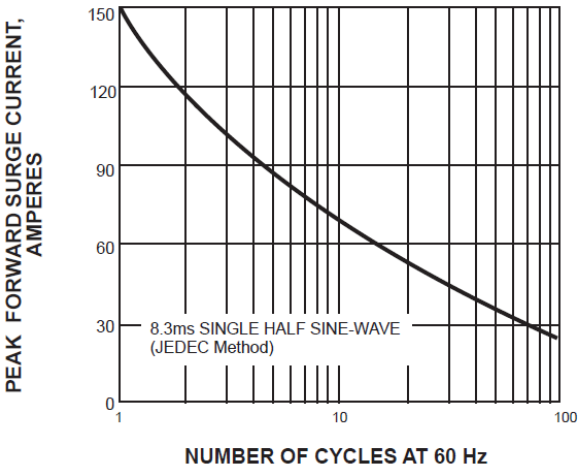


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

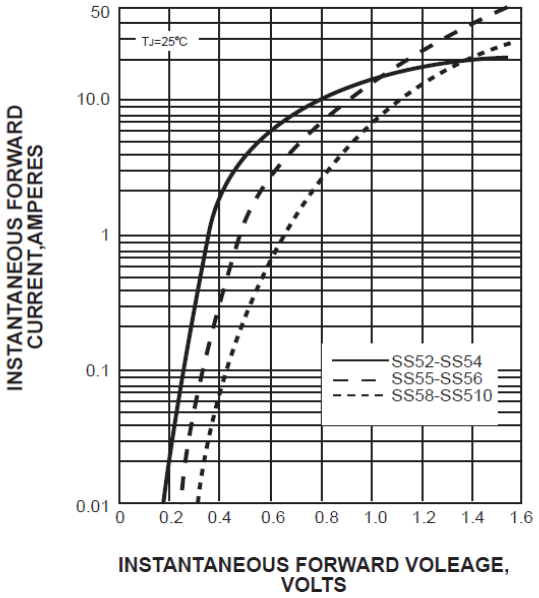


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

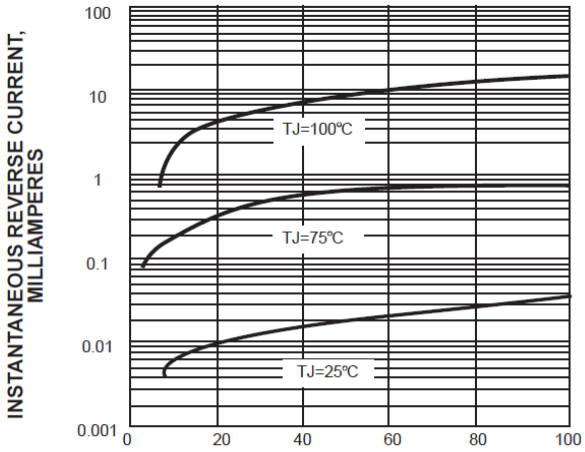


FIG. 5-TYPICAL JUNCTION CAPACITANCE

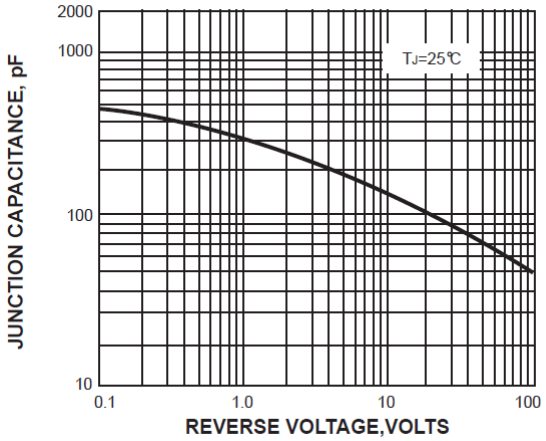
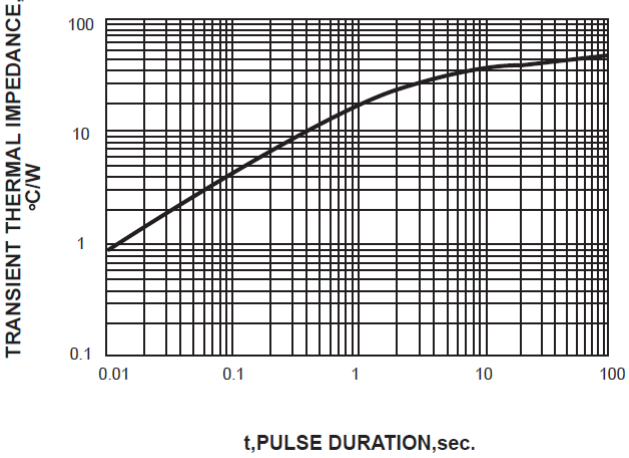


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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