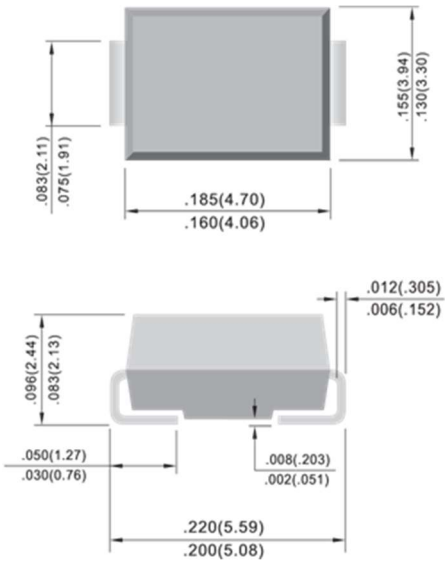
SS52 THUR SS510
Schottky Barrier Rectifiers

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



Device Name : SS 52 - SS 510

▌Color Band Denotes Cathode

Maximum Ratings And Electrical Characteristics

Characteristic	Symbol	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	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	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.
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

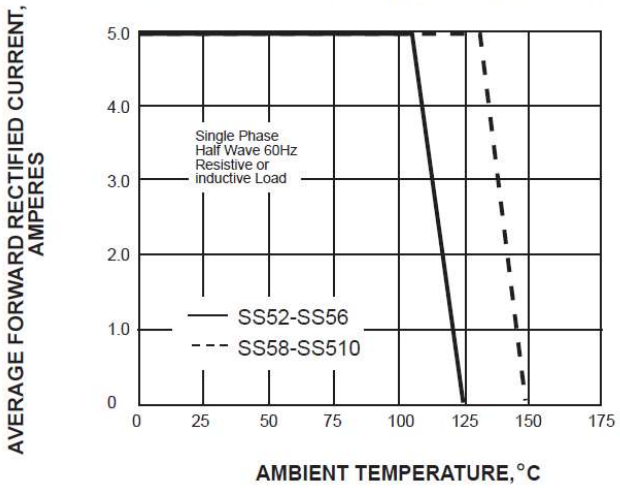


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

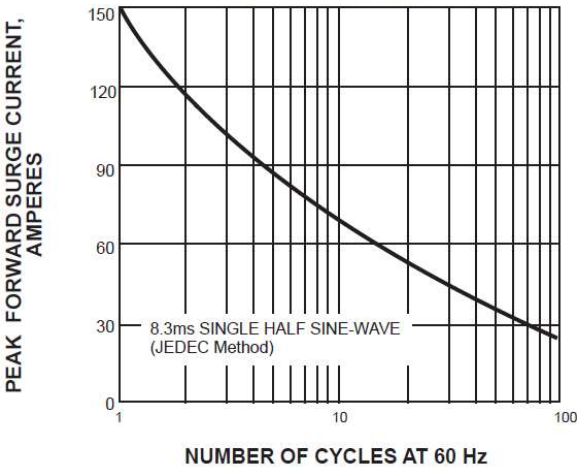


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

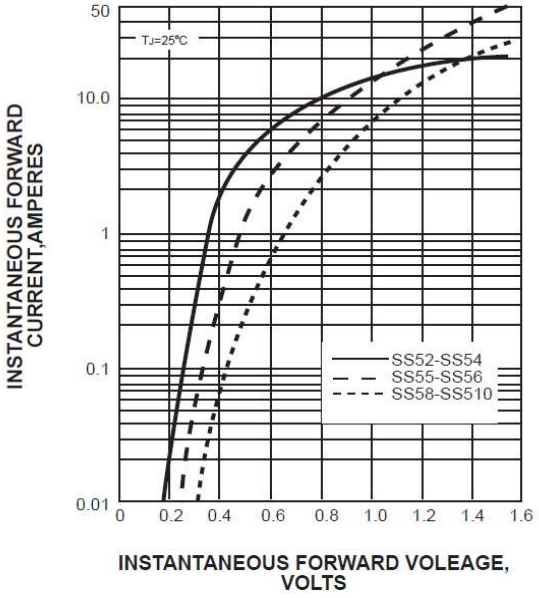


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

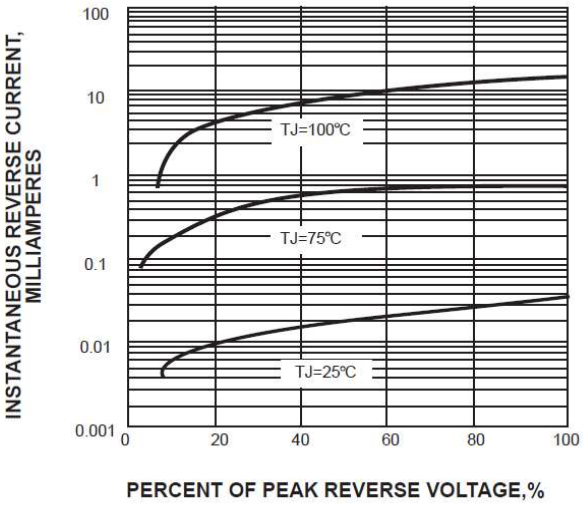


FIG. 5-TYPICAL JUNCTION CAPACITANCE

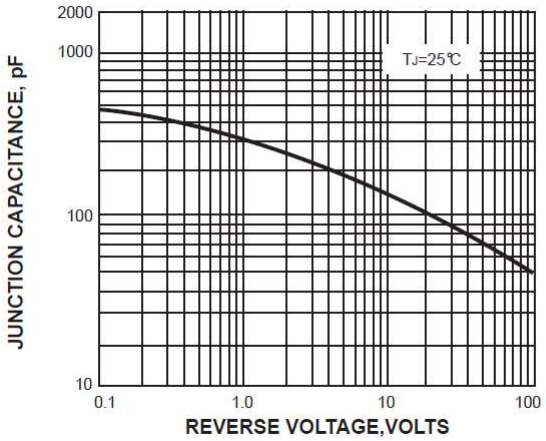
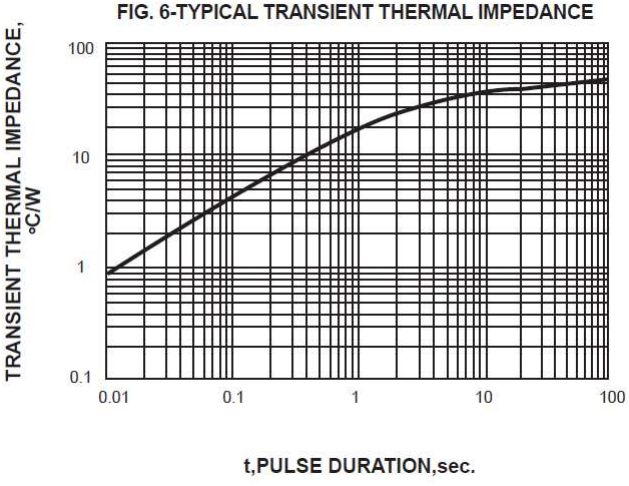


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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