# **SS52 THUR SS510**



## SS52 THUR SS510 Schottky Barrier Rectifiers

#### **General description**

5.0Amp Surface Mounted Schottky Barrier Rectifiers

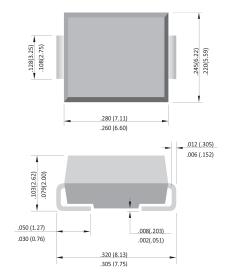
#### **FEATURES**

- 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-214AB molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750 ,Method 2026
- · Polarity: Color band denotes cathode
- Weight: 0.007 ounce, 0.25 gram

## SMC/DO214AB



Unit: inch (mm)

### **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	VRRM VRWM VR	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	70	V
Average Rectified Output Current	Io	5.0								А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150								A
Forward Voltage @I <sub>F</sub> = 5.0A	V FM	0.45 0.55 0.6 0.7 0.85						V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	1 50								mA
Typical Thermal Resistance Junction to Ambient (Note 1)	RJA	15								°C/W
Typical junction capacitance	Cı	500				350				pF
Operating Temperature Range	Tj	-55 to +150								°C
Storage Temperature Range	Тѕтс	-55 to +150								°C

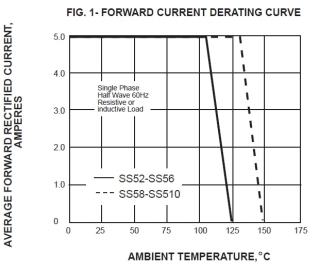
Note: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

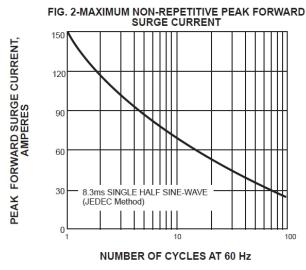
2. Thermal resistance junction to ambient

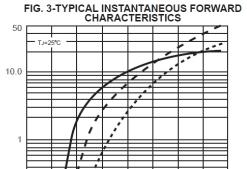
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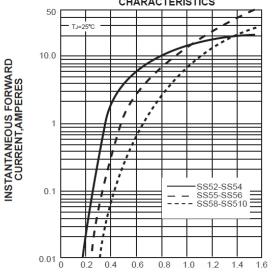
### **Rating And Characteristic Curves**

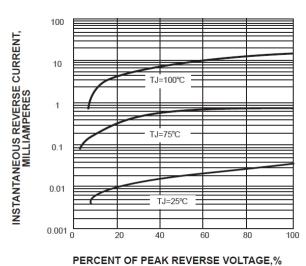




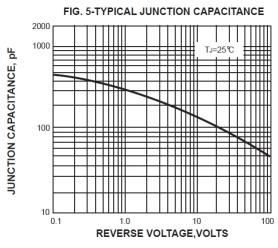


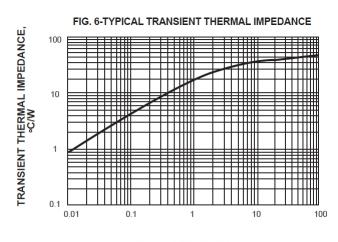






INSTANTANEOUS FORWARD VOLEAGE, VOLTS





t,PULSE DURATION,sec.



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