

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

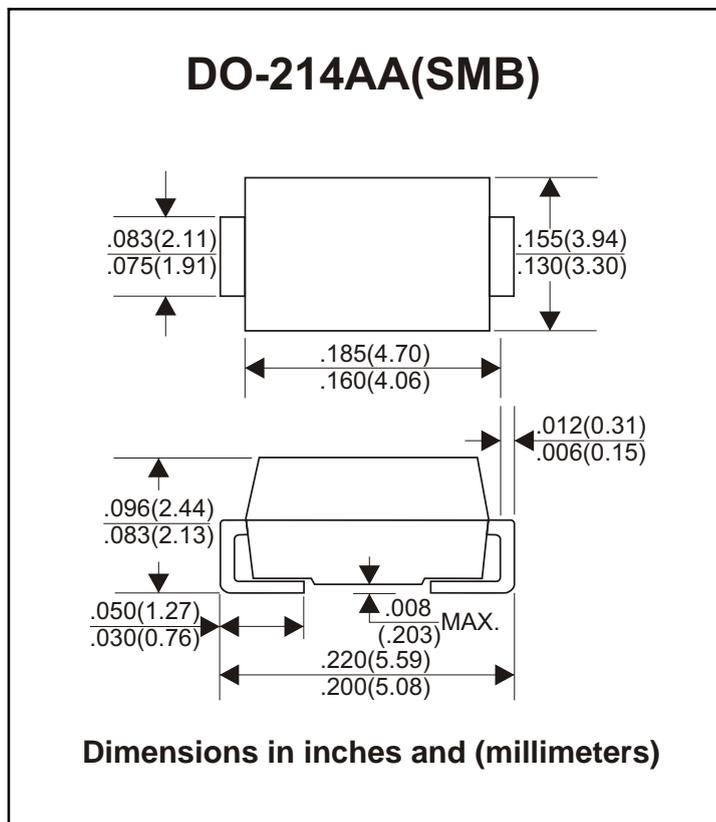
SS52 - SS510

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V	
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V	
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V	
Maximum Average Forward Rectified Current	5.0								A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120								A	
Maximum Instantaneous Forward Voltage at 5.0A	0.55		0.70			0.85			V	
Maximum DC Reverse Current $T_a=25^{\circ}\text{C}$	0.1					0.02				mA
at Rated DC Blocking Voltage $T_a=100^{\circ}\text{C}$	5					2				mA
Typical Junction Capacitance (Note1)	380								pF	
Typical Thermal Resistance $R_{\theta JA}$ (Note 2)	55								$^{\circ}\text{C}/\text{W}$	
Operating Temperature Range T_j	-65 — +150								$^{\circ}\text{C}$	
Storage Temperature Range T_{stg}	-65 — +150								$^{\circ}\text{C}$	

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.4x0.4 (10x10mm) copper pad areas

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

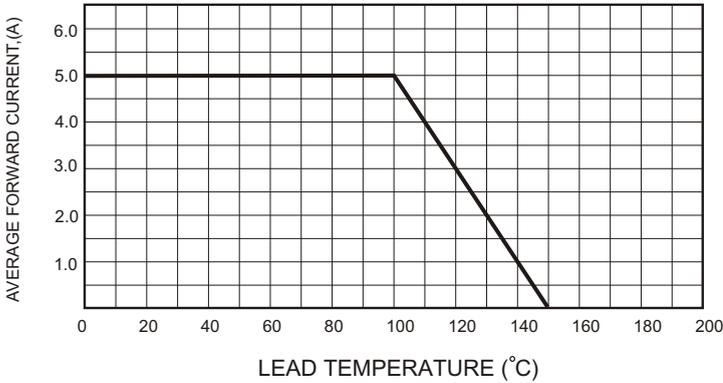


FIG.2-TYPICAL FORWARD

CHARACTERISTICS

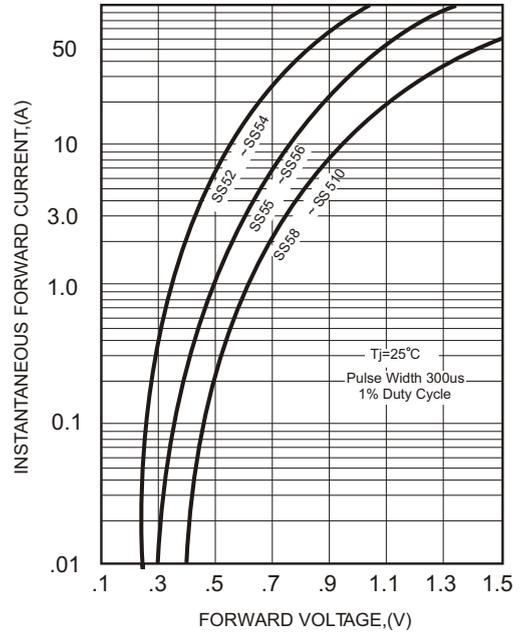


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

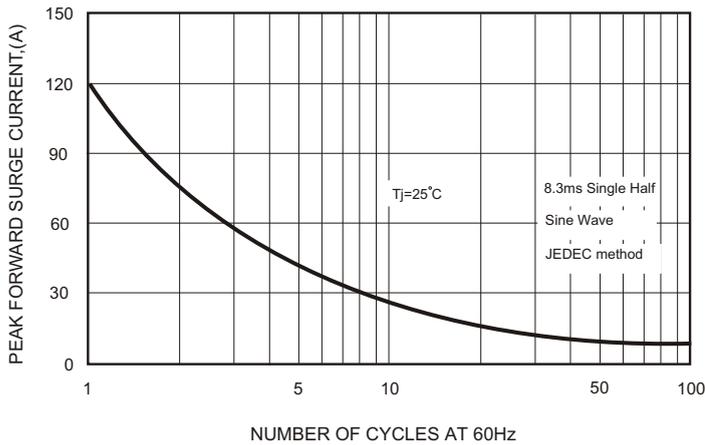


FIG.5 - TYPICAL REVERSE

CHARACTERISTICS

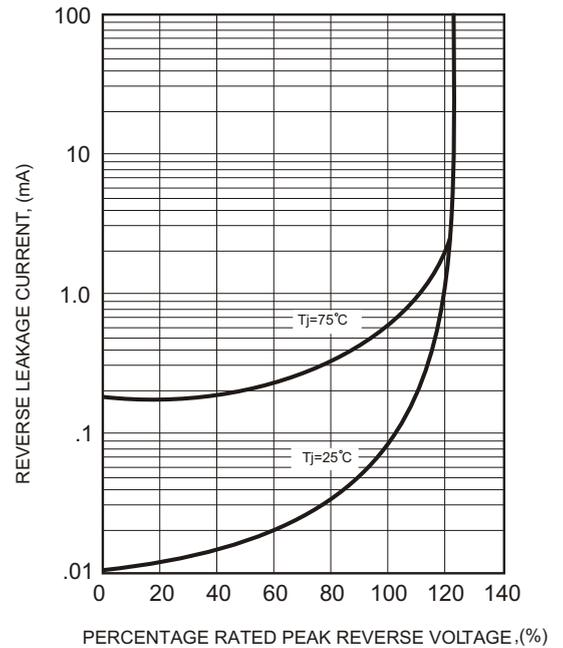


FIG.4-TYPICAL JUNCTION CAPACITANCE

