MSKSEMI















ESD

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Broduct data sheet







SMA

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: 0.063 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies 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	t						•			
At TL=100°C					5	.0				Α
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)		120						Α		
Maximum Instantaneous Forward Voltage at 5.0A		0.55 0.70			0.85			V		
Maximum DC Reverse Current	Ta=25°C			0.1				0.02		mA
at Rated DC Blocking Voltage	Ta=100°C			5				2		mA
Typical Junction Capacitance (Note1)		380						pF		
Typical Thermal Resistance R JL (Note 2)		10						°C/W		
Operating Temperature Range T _J		-65 —+150						°C		
Storage Temperature Range Tsτc		-65 — +150					°C			

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.



RATING AND CHARACTERISTIC CURVES (SS52 THRU SS510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

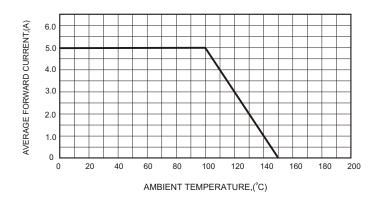


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

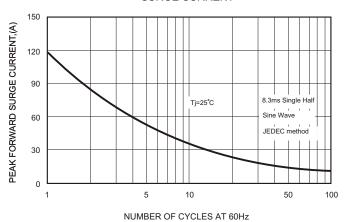


FIG.4-TYPICAL JUNCTION CAPACITANCE

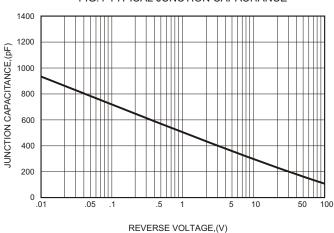


FIG.2-TYPICAL FORWARD

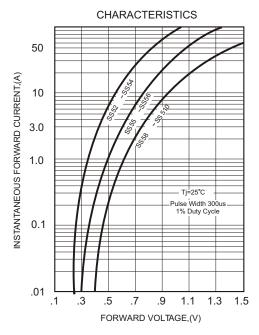
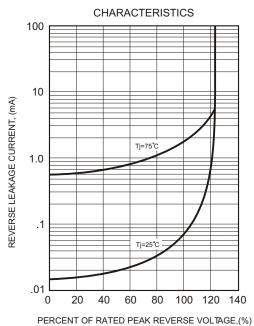
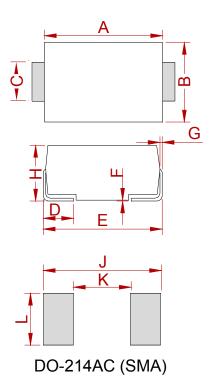


FIG.5 - TYPICAL REVERSE





PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	4.25	4.65	0.167	0.183		
В	2.50	2.90	0.098	0.114		
С	1.35	1.65	0.053	0.065		
D	0.76	1.52	0.030	0.060		
E	4.93	5.28	0.194	0.208		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	1.98	2.41	0.078	0.095		
J	6.50		0.256			
K		2.30		0.090		
L	1.70		0.067			

REEL SPECIFICATION

P/N	PKG	QTY
SS52 THRU SS510	SMA	2000



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