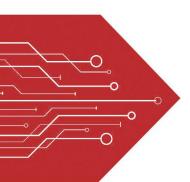
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet

VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere



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%.

P/N(MARK)		SS12-MS	SS13-MS	SS14-MS	SS15-MS	SS16-MS	SS18-MS	SS19-MS	SS110-MS	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						-				
See Fig. 1		1.0							Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)		30						Α		
Maximum Instantaneous Forward Voltage at 1.0A		0.55 0.70 0.85					V			
Maximum DC Reverse Current	Ta=25°C				0.	.2				mA
at Rated DC Blocking Voltage	Ta=100°C	10				mA				
Typical Junction Capacitance (Note1)		110						pF		
Typical Thermal Resistance R JA (Note 2)		50							°C/W	
Operating Temperature Range T _J		-65 —+125						°C		
Storage Temperature Range Tsтс		-65 — +150						°C		

NOTES:

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

RATING AND CHARACTERISTIC CURVES (SS12-MS THRU SS110-MS)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

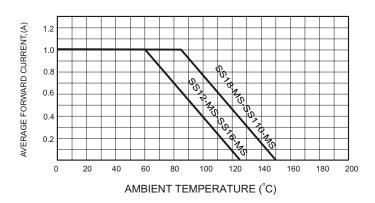


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

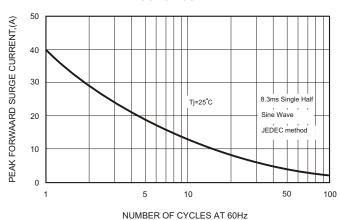


FIG.4-TYPICAL JUNCTION CAPACITANCE

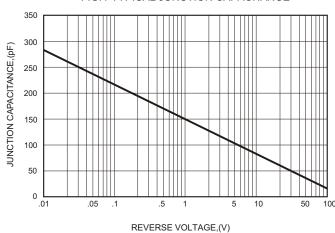


FIG.2-TYPICAL FORWARD

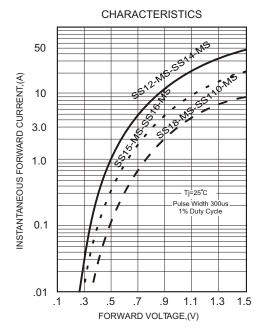
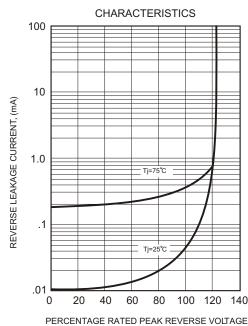


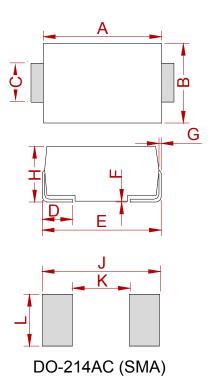
FIG.5 - TYPICAL REVERSE







PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millin	neters	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		
Е	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
SS12-MS THRU SS110-MS	SMA	2000





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