## 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		SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	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 Cu	rent									
See Fig. 1			2.0						Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)			50						Α	
Maximum Instantaneous Forward Voltage at 2.0A			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)		170						pF		
Typical Thermal Resistance R JA (Note 2)		75						°C/W		
Operating Temperature Range T <sub>J</sub>			-65 —+150						°C	
Storage Temperature Range Тэтс			-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 (SS22 THRU SS210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

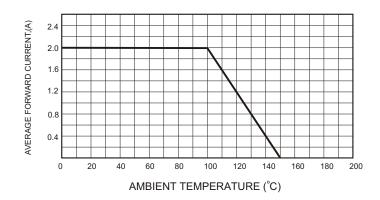


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

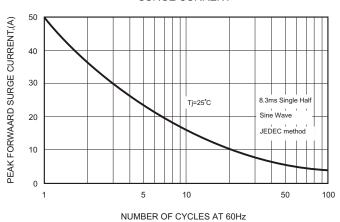


FIG.4-TYPICAL JUNCTION CAPACITANCE

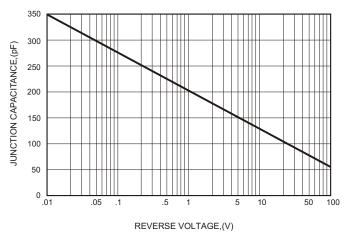


FIG.2-TYPICAL FORWARD

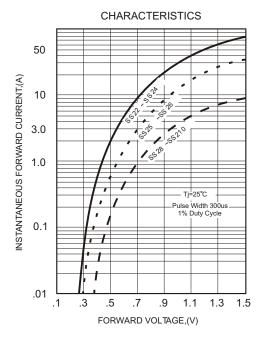
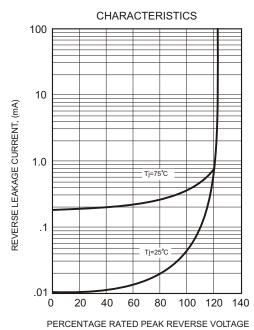
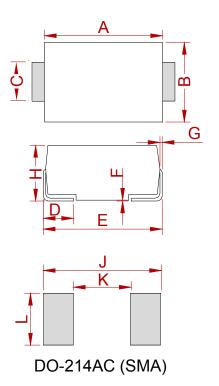


FIG.5 - TYPICAL REVERSE



## **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
SS22 THRU SS210	SMA	2000



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