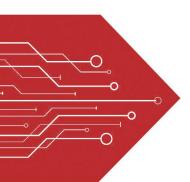
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

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 uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		SS215	SS220	UNITS
Maximum Recurrent Peak Reverse Voltage		150	200	V
Maximum RMS Voltage		105	140	V
Maximum DC Blocking Voltage		150	200	V
Maximum Average Forward Rectified Curren	t			
at TL=100°C		2.0		А
Peak Forward Surge Current, 8.3 ms single h	nalf sine-wave			
superimposed on rated load (JEDEC method)		50		Α
Maximum Instantaneous Forward Voltage at 2.0A		0.92		V
Maximum DC Reverse Current	Ta=25°C	0.	02	mA
at Rated DC Blocking Voltage	Ta=100°C		2	mA
Typical Junction Capacitance (Note1)		170		PF
Typical Thermal Resistance RθJL (Note 2)		12		°C/W
Operating Temperature Range TJ		-65 — +150		°C
Storage Temperature Range Tsrg		-65 		°C

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.





RATING AND CHARACTERISTIC CURVES (SS215 THRU SS220)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

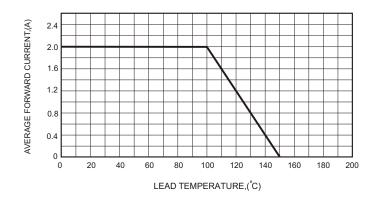


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

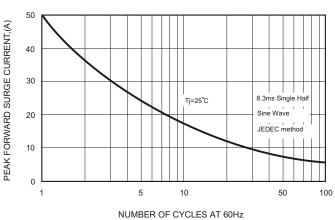
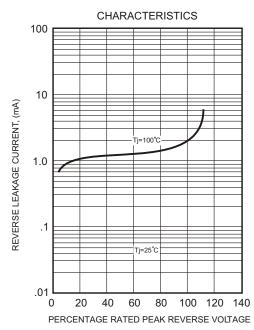


FIG.4-TYPICAL JUNCTION CAPACITANCE 700 600 JUNCTION CAPACITANCE, (pF) 500 400 300 200 100 0 <u>L</u> .01 .05 10 REVERSE VOLTAGE,(V)

FIG.2-TYPICAL FORWARD **CHARACTERISTICS** 50 INSTANTANEOUS FORWARD CURRENT,(A) 10 3.0 1.0 ulse Width 300u 1% Duty Cycle 0.1 .01 .3 .5 .7 1.3 .9 1.1 FORWARD VOLTAGE,(V)

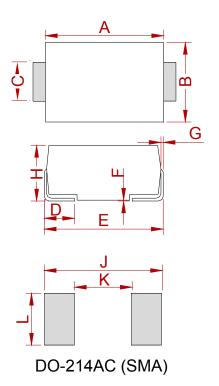
FIG.5 - TYPICAL REVERSE







PACKAGE MECHANICAL DATA



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
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
SS215 THRU SS220	SMA	2000



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