MSKSEMI















ESD

TVS

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Broduct data sheet



SMA

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.063 gram

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	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C	1.0			А				
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30				А			
Maximum Instantaneous Forward Voltage at 1.0A		1.1					V	
Maximum DC Reverse Current Ta=25°C				5.0				μА
at Rated DC Blocking Voltage Ta=100°C				50				μА
Typical Junction Capacitance (Note 1)		15				pF		
Typical Thermal Resistance R JA (Note 2)		50				°C/W		
Operating and Storage Temperature Range T _J , Tsτc		-65—+150				°C		

NOTES:

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





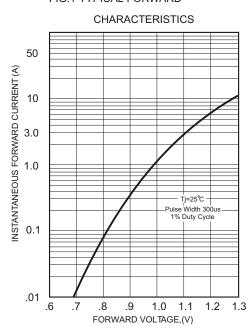


FIG.3 - TYPICAL REVERSE

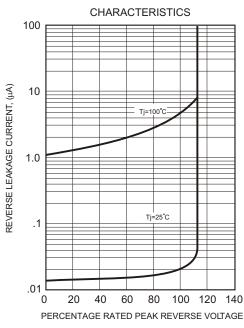


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

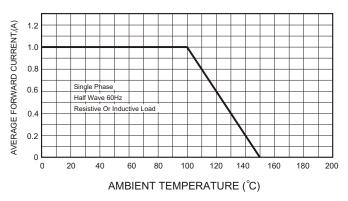


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

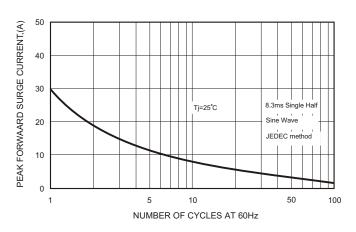
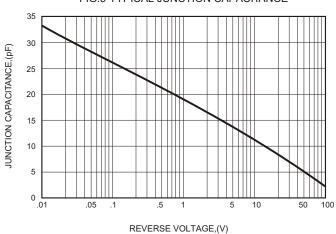
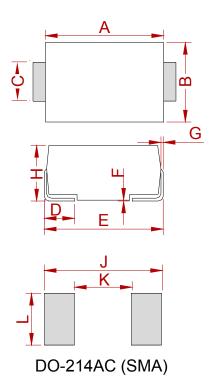


FIG.5-TYPICAL JUNCTION CAPACITANCE





PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
А	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
GS1A THRU GS1M	SMA	2000



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