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
- * Fast switching speed

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	US1A	US1B	US1D	US1G	US1J	US1K	US1M	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=55°C		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		1.0		1.3		1.7		V
Maximum DC Reverse Current Ta=25 C				5.0				μА
at Rated DC Blocking Voltage Ta=100°C				100				μА
Maximum Reverse Recovery Time (Note 1)		50		75		nS		
Typical Junction Capacitance (Note 2)		15				pF		
Operating and Storage Temperature Range Т _J , Тsтс		-50 — +150				°C		

NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.





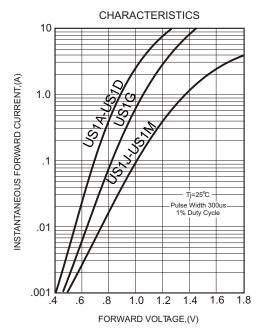
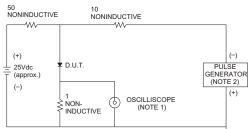


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

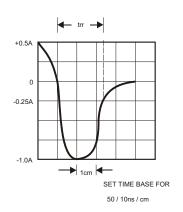


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

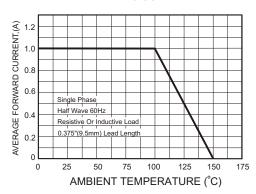


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

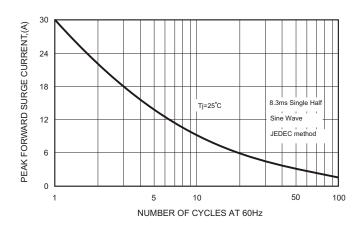
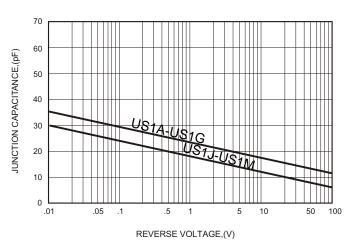
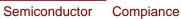


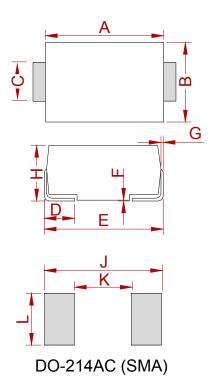
FIG.5-TYPICAL JUNCTION CAPACITANCE







PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
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
US1A THRU US1M	SMA	2000



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