MSKSEMI















ESD

TVS

TSS

MOV

GDT

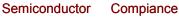
PLED

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 $25\,^{\circ}\text{C}$ ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

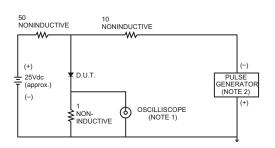
TYPE NUMBER	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNITS
Maximum Recurrent Peak Reverse Voltage		100	150	200	300	400	600	V
Maximum RMS Voltage		70	105	140	210	280	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=55°C		2.0					Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)				60				Α
Maximum Instantaneous Forward Voltage at 2.0A		0.95 1.25 1.70			1.70	V		
Maximum DC Reverse Current Ta=25°C				5.0				μΑ
at Rated DC Blocking Voltage Ta=100°C				500				μА
Maximum Reverse Recovery Time (Note 1)		35					nS	
Typical Junction Capacitance (Note 2)		60				pF		
Operating and Storage Temperature Range TJ, Tstg		-65—+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.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

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

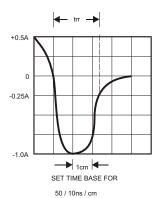


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

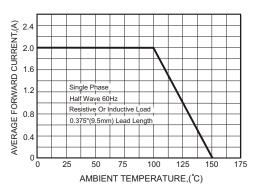


FIG.3-TYPICAL FORWARD

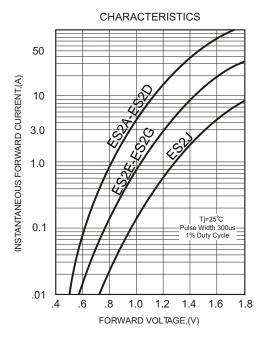
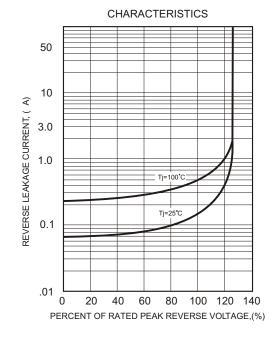


FIG.4-TYPICAL REVERSE





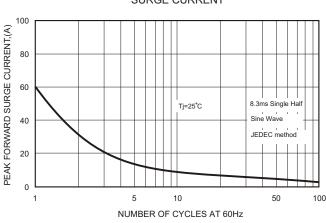
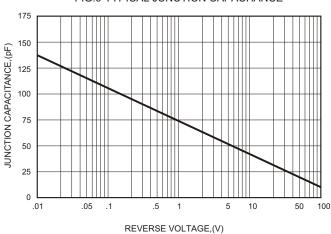


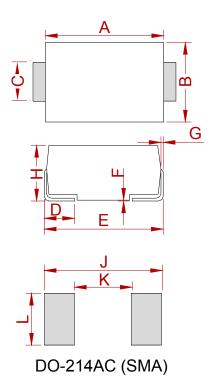
FIG.6-TYPICAL JUNCTION CAPACITANCE





Semiconductor Compiance

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	
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
ES2A THRU ES2J	SMA	2000



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