MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

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VOLTAGE RANGE 50 to 600 Volts **CURRENT**

1.0 Ampere



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

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%.

P/N(MARK)		ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	UNITS
Maximum Recurrent Peak Reverse Voltag	je	50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Cur	rent		•						
at Ta=25°C			1.0					Α	
Peak Forward Surge Current, 8.3 ms sing	le half sine-wave								
superimposed on rated load (JEDEC method)			25					Α	
Maximum Instantaneous Forward Voltage at 1.0A				0.95		1.:	25	1.7	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)		15					pF		
Typical Thermal Resistance R JA (Note 3)			80					°C/W	
Operating and Storage Temperature Range Тл, Тsтс			-65 — +150						°C
Marking Code									

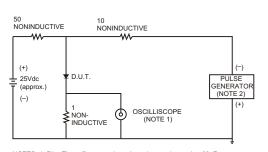
- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance from Junction to Ambient.





RATING AND CHARACTERISTIC CURVES (ES1AF THRU ES1JF)

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.

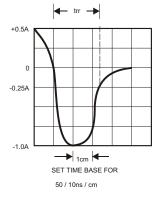


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

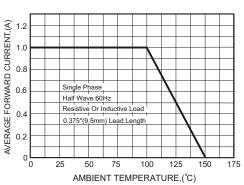


FIG.3-TYPICAL FORWARD

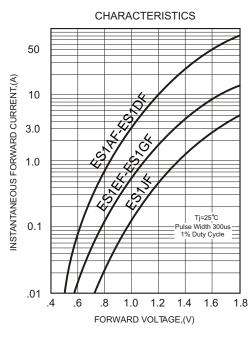


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

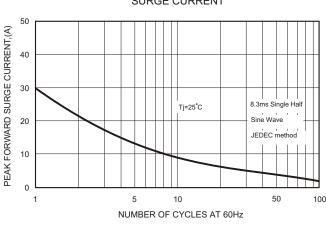


FIG.4-TYPICAL REVERSE

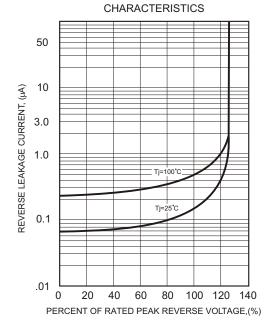
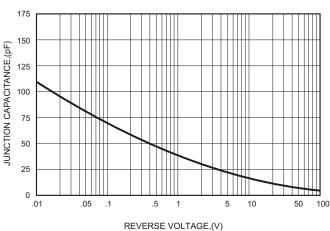
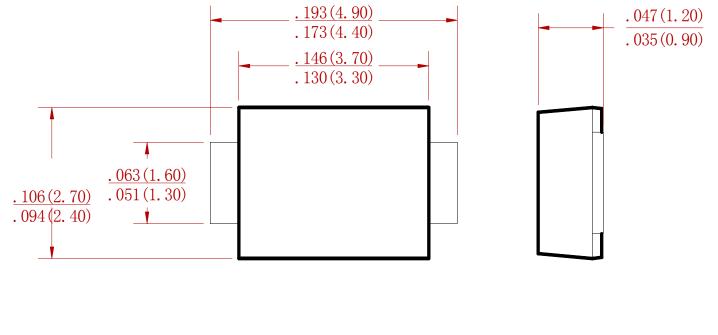
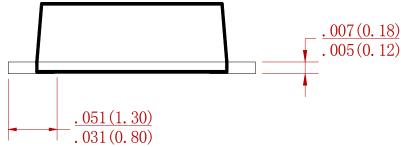


FIG.6-TYPICAL JUNCTION CAPACITANCE



PACKAGE MECHANICAL DATA





Dimensions in inches and (millimeters)

REEL SPECIFICATION

P/N	PKG	QTY		
ES1AF THRU ES1JF	SMAF	3000		



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