

ES1AF THRU ES1JF

1.0 AMP SURFACE MOUNT SUPER FAST RECTIFIERS

FEATURES

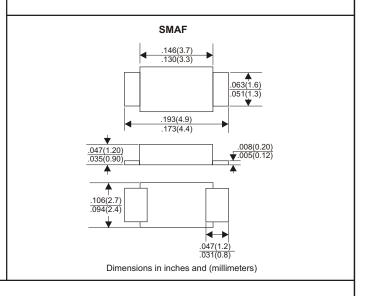
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Fast switching speed

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 50 to 600 Volts CURRENT

1.0 Ampere



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%.

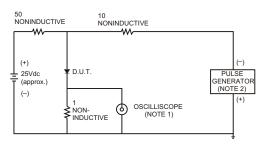
TYPE NUMBER		ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current			•	•			•		
at Ta=25°C			1.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)			25						
Maximum Instantaneous Forward Voltage at 1.0A			0.95 1.25			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						
Typical Junction Capacitance (Note 2)			15						
Typical Thermal Resistance R JA (Note 3)			80						
Operating and Storage Temperature Range Тл, Тятс			-65 — +150						
Marking Code									

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.
- 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.

+0.5A

-1.0A

-1.0A

-1.0A

-1.0A

SET TIME BASE FOR
50 / 10ns / cm

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

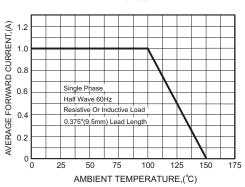


FIG.3-TYPICAL FORWARD

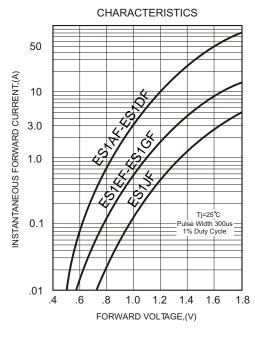


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

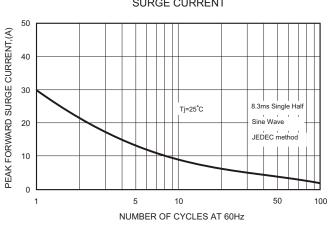


FIG.4-TYPICAL REVERSE

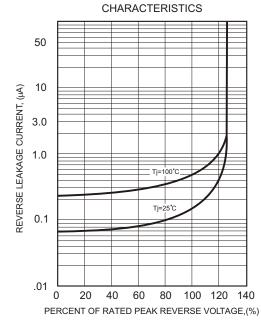
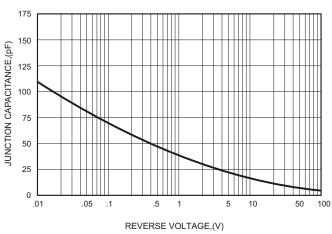


FIG.6-TYPICAL JUNCTION CAPACITANCE



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