

ES07A THRU ES07J

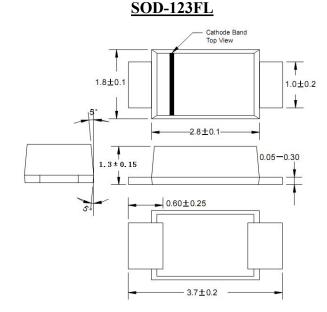
1.0AMP. SURFACE MOUNT SUPER FAST RECTIFIERS

FEATURES

- . Glass passivated device
- . Ideal for surface mouted applications
- . Low reverse leakage
- . Metallurgically bonded construction
- . Superfast recovery time for high efficiency
- . High temperature soldering guaranteed:
- 250°C/10 seconds at terminals.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity: Color band denotes cathode end
- . Packaging: 12mm tape per EIA STD RS-481
- . Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	SYM BOL	ES07A	ES07B	ES07D	ES07G	ES07J	units	
	marking	EA	EB	ED	EG	EJ		
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	V	
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	V	
Maximum DC Blocking Voltage	$V_{ m DC}$	50	100	200	400	600	V	
Maximum Average Forward rectified Current	1	1.0					A	
at $T_A = 65^{\circ}C$ (Note 1)	$I_{\text{F(AV)}}$							
Peak Forward Surge Current 8.3ms single half		25					A	
sine-wave superimposed on rate load (JEDEC	I _{FSM}							
method)								
Maximum Instantaneous forward Voltage at	$V_{ m F}$		0.95		1.3	1.7	V	
1.0 A DC			0.93		1.3	1.7	·	
Maximum DC Reverse Current @T _A =25°C	ī	5.0					μA	
at rated DC blocking voltage @T _A =125°C	$I_{ m R}$	100.0						
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35					nS	
Typical Junction Capacitance (Note 3)	$C_{ m J}$	20 10			pF			
Typical thermal resistance (Note 4)	$R_{(JA)}$	180					°C /W	
Storage Temperature Range	$T_{ m STG}$	-55 to +150					°C	
Operation Temperature Range	$T_{ m J}$	-55 to +150					°C	

Note: 1. Averaged over any 20 ms period.

- 2.Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 3. Measured at 1MHz and applied reverse voltage of 4.0 volts d.c.
- 4. Measured on P.C.Board with 0.2×0.2"(5.0×5.0mm)Copper Pad Areas

RATING AND CHARACTERISTIC CURVES (ES07A THRU ES07J)

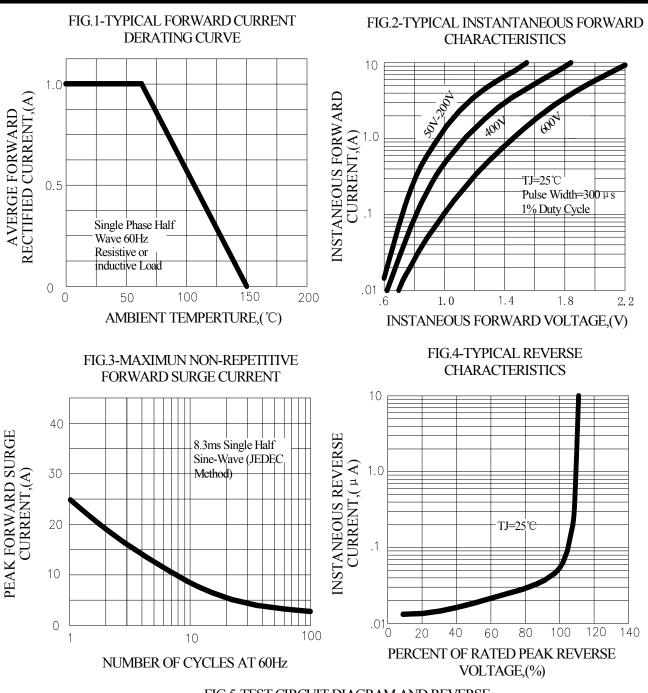
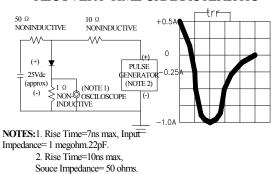


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



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