



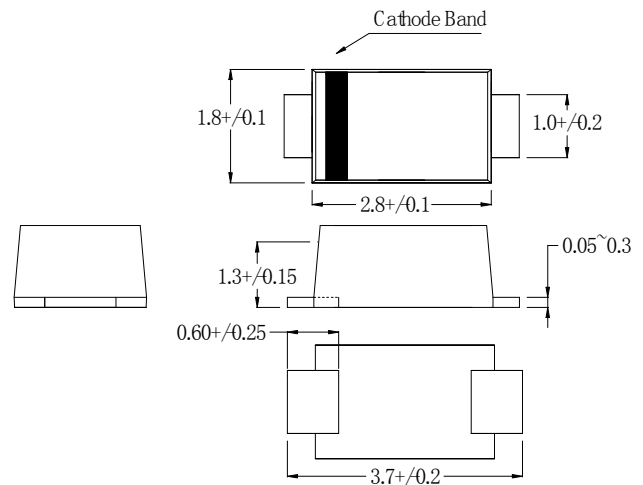
PINGWEI ENTERPRISE

ES07A THRU ES07J**1.0 AMP. SURFACE MOUNT SUPER FAST RECTIFIERS****FEATURES**

- . Glass passivated device
- . Ideal for surface mounted 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

SOD-123FL**MAXIMUM RATINGS AND ELECTRICAL 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	Marking SYMBOL	ES07A	ES07B	ES07D	ES07G	ES07J	units
		EA	EB	ED	EG	EJ	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward rectified Current at T _A =65°C (Note 1)	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	25					A
Maximum Instantaneous forward Voltage at 1.0 A DC	V_F	0.95			1.3	1.7	V
Maximum DC Reverse Current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I_R	5.0					μA
		100.0					
Maximum Reverse Recovery Time (Note 2)	t_{rr}	35					ns
Typical Junction Capacitance (Note 3)	C_J	20			10		pF
Typical thermal resistance (Note 4)	$R_{(JA)}$	180					°C /W
Storage Temperature Range	T_{STG}	-55 to +150					°C
Operation Temperature Range	T_J	-55 to +150					°C

- Note:**
1. Averaged over any 20 ms period.
 2. Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
 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