



## RS07A THRU RS07M

PINGWEI ENTERPRISE 1.0 AMP. SURFACE MOUNT GENERAL PURPOSE FAST RECOVERY RECTIFIERS

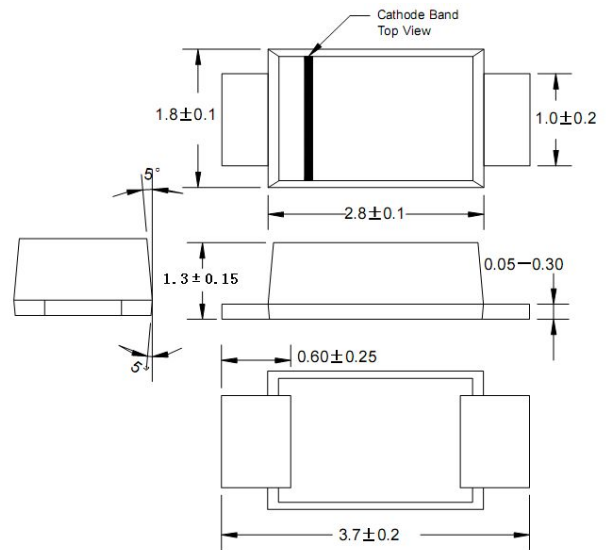
### FEATURES

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

### MECHANICAL DATA

- Case: JEDEC SOD-123FL, molded plastic over passivated chip
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.006 ounces, 0.02 gram
- Mounting position: Any

### SOD-123FL



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

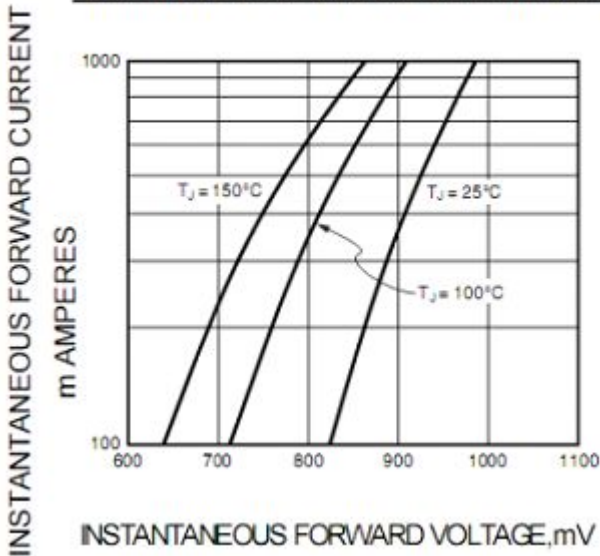
For capacitive load, derate current by 20%.

Type Number	SYMBOL	RS07A	RS07B	RS07D	RS07G	RS07J	RS07K	RS07M	units
	marking	RA	RB	RD	RG	RJ	RK	RM	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Current at $T_A = 65^\circ\text{C}$ (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	$V_F$	1.3							V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 125^\circ\text{C}$	$I_R$	10							$\mu\text{A}$
		50.0							
Maximum Reverse Recovery Time (Note 2)	$t_{rr}$	150				250	500		nS
Typical Junction Capacitance (Note 3)	$C_J$	4							pF
Typical thermal resistance (Note 4)	$R_{(JA)}$	180							$^\circ\text{C}/\text{W}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$
Operation Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$

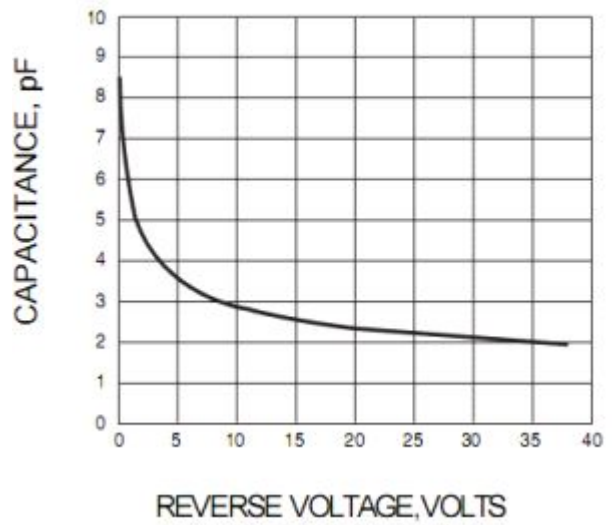
- Note:**
1. Averaged over any 20 ms period.
  2. Test Conditions:  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$
  3. Measured at 1MHz and applied reverse voltage of 4.0 volts d.c.
  4. Measured on P.C.Board with  $0.2 \times 0.2''$  ( $5.0 \times 5.0\text{mm}$ ) Copper Pad Areas

**RATING AND CHARACTERISTIC CURVES (RS07A THRU RS07M)**

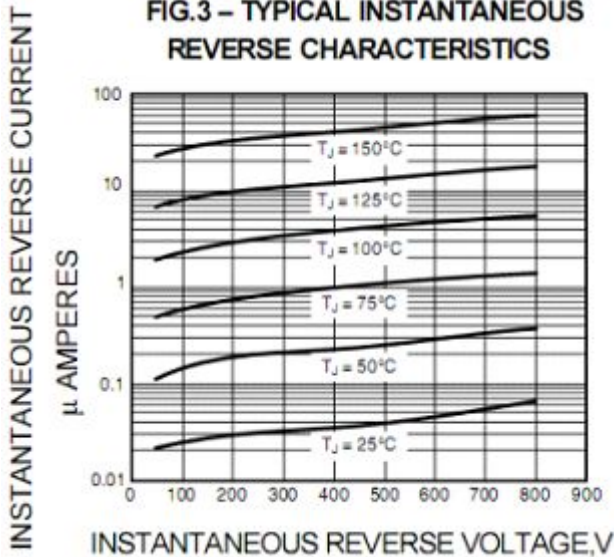
**FIG.1 - TYPICAL FORWARD CHARACTERISTIC**



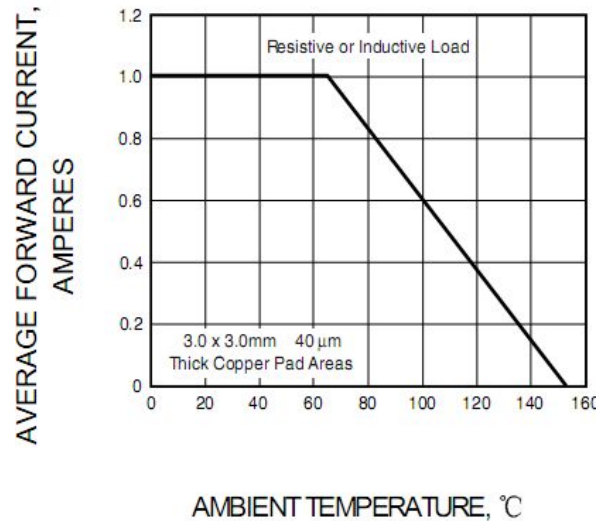
**FIG.2 - TYPICAL JUNCTION CAPACITANCE**



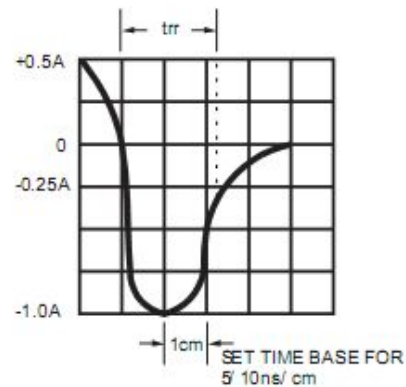
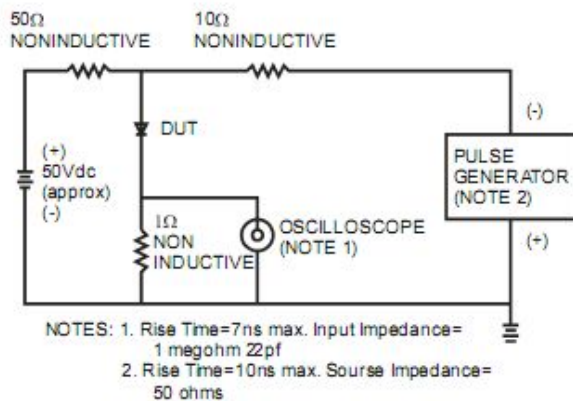
**FIG.3 - TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS**



**FIG.4 - FORWARD DERATING CURVE**



**FIG.5-- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



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