PINGWEI ENTERPRISE

RS07A THRU RS07M

1.0AMP. SURFACE MOUNT FAST RECOVERY SURFACE MOUNT RECTIFIERS

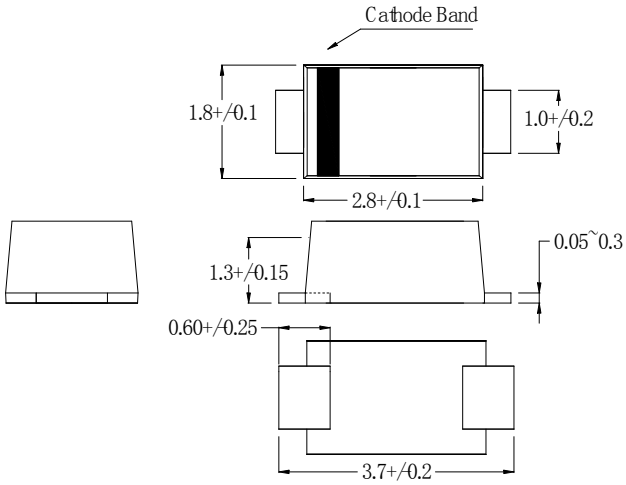
FEATURE

- Fast switching
- Glass passivated device
- Ideal for surface mouted 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 inches and (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 / Marking	SYMBOL	RS07A	RS07B	RS07D	RS07G	RS07J	RS07K	SR07M	units
		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°C (Note 1)	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	25.0							A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F	1.3							V
Maximum DC Reverse Current @T_A =25°C at rated DC blocking voltage @T_A =125°C	I_R	10.0 50.0							μA
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 3)	$R_{(JA)}$	180							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_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 1.0 MHz and applied reverse voltage of 4.0Vdc
4. Measured on P. C. Board with 0.2×0.2″(5.0×5.0mm) Copper Pad Areas.