

RS07A THRU RS07M

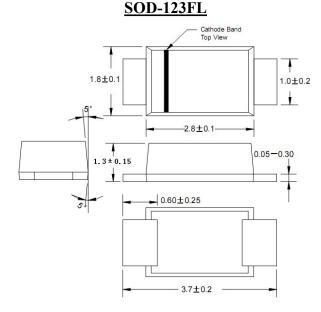
PINGWEIENTERPRISE 1.0 AMP. SURFACE MOUNT GENERAL PURPOSE FAST RECOVERY RECTIFIERS

FEATURES

- 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



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, 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	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified	,				1.0				
Current at $T_A = 65^{\circ}\text{C}$ (Note 1)	$I_{\text{F(AV)}}$ 1.0							A	
Peak Forward Surge Current 8.3ms single									
half sine-wave superimposed on rate load	<i>I</i> _{FSM} 25								A
(JEDEC method)									
Maximum Instantaneous forward Voltage at	$V_{\rm F}$ 1.3							V	
1.0 A DC	V F	1.3							v
Maximum DC Reverse Current @ $T_A = 25$ °C	$I_{ m R}$	10							μΑ
at rated DC blocking voltage @ $T_A = 125$ °C	1 _R	50.0							
Maximum Reverse Recovery Time (Note 2)	$t_{\rm rr}$	150				250	5	000	nS
Typical Junction Capacitance (Note 3)	$C_{ m J}$	4							pF
Typical thermal resistance (Note 4)	$R_{(JA)}$	180							°C /W
Storage Temperature Range	T _{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 (RS07A THRU RS07M)

