

RS07A THRU RS07M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 0.7 Ampere

FEATURES

Glass passivated device Ideal for surface mouted applications Low reverse leakage Metallurgically bonded construction High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body over passivated chip

Terminals: Solderable per MIL-STD-750,

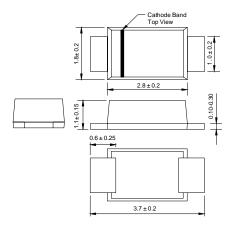
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

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 current derate by 20%.

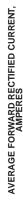
	SYMBOLS	RS07A	RS07B	RS07D	RS07G	RS07J	RS07K	RS07M	UNITS
		RA	RB	RD	RG	RJ	RK	RM	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at Ta=100℃ (NOTE 1)	l(AV)	0.7							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	Ігѕм	25.0							Amps
Maximum instantaneous forward voltage at 0.7A	VF	1.30							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lR	5.0 100.0							μΑ
Maximum reverse recovery time (NOTE 2)	trr	150				250	50	0	ns
Typical junction capacitance (NOTE 3)	C¹	4						pF	
Typical thermal resistance (NOTE 4)	RθJA	180							K/W
Operating junction and storage temperature range	Т _Ј ,Тѕтс	-55 to +150							°C

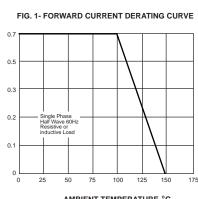
Note: 1. Averaged over any 20ms period.

- 2.Measured with IF=0.5A, IR=1A, Irr=0.25A.
- 3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to ambient, 6.0 mm2 coppeer pads to each terminal.

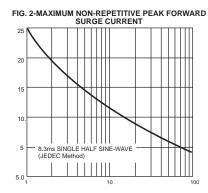


RATINGS AND CHARACTERISTIC CURVES RS07A THRU RS07M

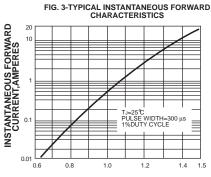




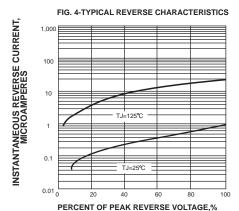




AMBIENT TEMPERATURE,°C

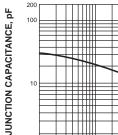


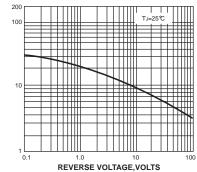
NUMBER OF CYCLES AT 60 Hz



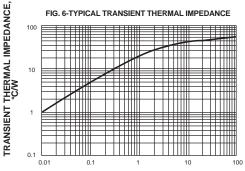
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 5-TYPICAL JUNCTION CAPACITANCE









t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)