RS1AL THRU RS1ML GarhoMicro SUFACE MOUNT FAST RECOVERY RECTIFIER Reverse Voltage - 50 to 1000 Volts Forward Current -1.0Ampere SOD-123FL **FEATURES** Cathode Band Top View Glass passivated device Ideal for surface mouted applications Low reverse leakage 0 ± 0.2 .8±0. Metallurgically bonded construction + High temperature soldering guaranteed: 2.8±0.1 250 C/10 seconds,0.375" (9.5mm) lead length, 0-0.30 5 lbs. (2.3kg) tension 1.3±0.15 0.6+0.25 **MECHANICAL DATA** Г Case : JEDEC SOD-123FL molded plastic body over passivated chip Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026 3.7±0.2 Polarity : Color band denotes cathode end Mounting Position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Weight :0.0007 ounce, 0.02 grams

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%.

MDD Catalog Number	SYMBOLS	RS1AL	RS1BL	RS1DL	RS1GL	RS1JL	RS1KL	RS1ML	UNITS
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=65 C (NOTE 1)	l(av)	1.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	25.0							Amps
rated load (JEDEC Method) TL=25 C									
Maximum instantaneous forward voltage at 1.0A	Vf	1.3							Volts
Maximum DC reverse current Ta=25 C at rated DC blocking voltage Ta=125 C	lr	5.0 50.0							А
Maximum reverse recovery time (NOTE 2)	trr	150 250 500					ns		
Typical junction capacitance (NOTE 3)	Сл	15							pF
Operating junction and storage temperature range	Тј,Тѕтс	-50 to +150							С

Note: 1. Averaged over any 20ms period.

2.Measured with IF=0.5A, IR=1A, Irr=0.25A.

Dimensions in millimeters

3.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

