

1F1G THRU 1F7G

FAST RECOVERY GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 1.0A

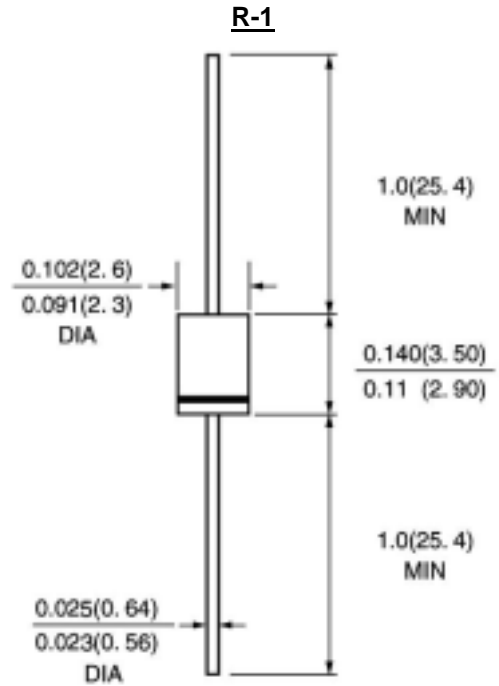


FEATURE

Molded case feature for auto insertion
 High current capability
 Low leakage current
 High surge capability
 High temperature soldering guaranteed
 250°C /10sec/0.375" lead length at 5 lbs tension
 Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
 Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	1F 1G	1F 2G	1F 3G	1F 4G	1F 5G	1F 6G	1F 7G	units
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 3/8" lead length at Ta =50°C	I _{f(av)}	1.0							A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	30.0							A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	1.3							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	5.0 100.0							μA μA
Typical Junction Capacitance (Note 1)	C _j	15.0							pF
Maximum Reverse Recovery Time (Note 2)	T _{rr}	150			250	500		nS	
Operating Temperature (Note 3)	R(ja)	50.0							°C/W
Storage and Operation Junction Temperature	T _{stg} , T _j	-55 to +150							°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
3. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1F1G THRU 1F7G

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

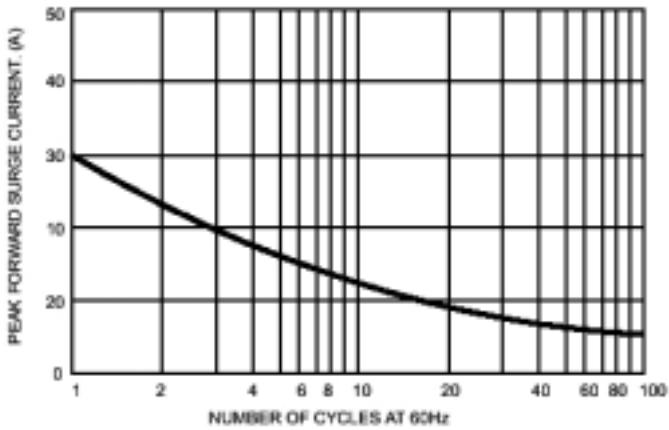


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

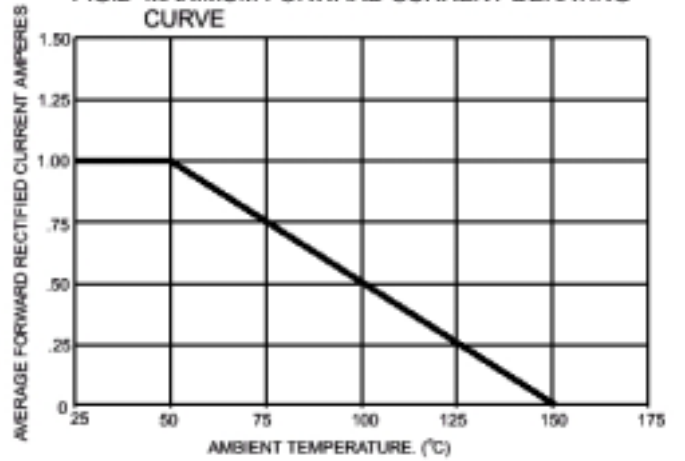


FIG.3- TYPICAL JUNCTION CAPACITANCE

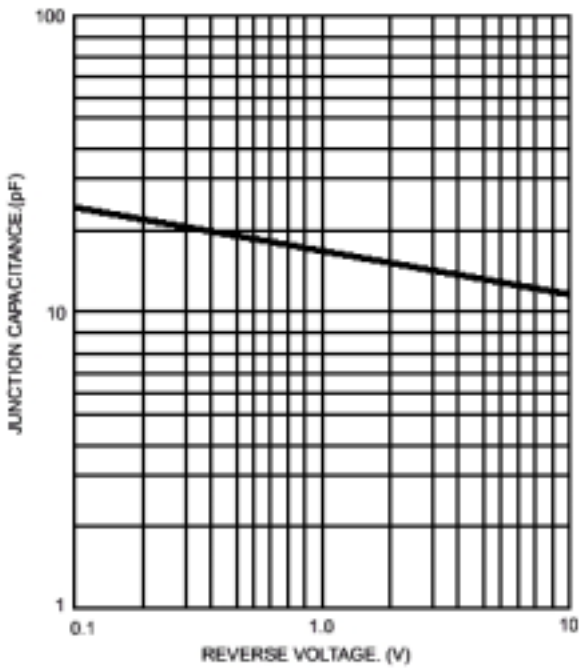


FIG.4- TYPICAL FORWARD CHARACTERISTICS

