

1F1G THRU 1F7G

1.0AMP. GLASS PASSIVATED FAST RECOVERY RECTIFIERS

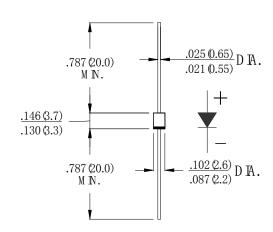
FEATURE

- . Fast switching
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed 260°C /10sec/ 0.375" lead length at 5 lbs tension
- . Ф0.6mm leads

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

<u>R-1</u>



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	SYMBOL	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	units
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 Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		30.0							A
Maximum Instantaneous forward Voltage at 1.0A DC	$V_{ m F}$	1.3							V
Maximum DC Reverse Current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=125^{\circ}C$	$I_{ m R}$	5.0 100.0							μΑ
Maximum Reverse Recovery Time (Note 1)	$t_{\rm rr}$	150 250 500						ns	
Typical Junction Capacitance (Note 2)	$C_{ m J}$	15							pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75							°C/W
Storage Temperature	$T_{ m STG}$	-55 to +150							°C
Operation Junction Temperature	$T_{ m J}$	-55 to +150							°C

Note:

- 1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.