1F1G THRU 1F7G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE：50-1000V **CURRENT：1.0A**

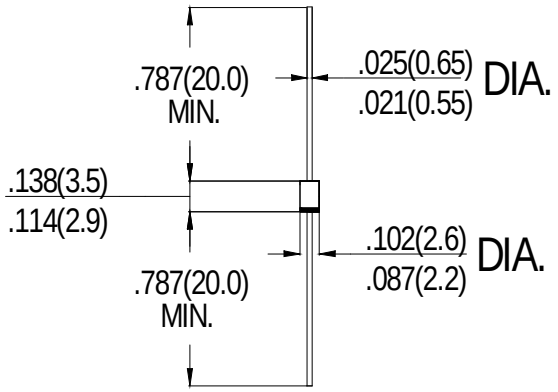
FEATURES

- High reliability
- Low leakage
- Low forward voltage drop
- High current capability

MECHANICAL DATA

- ***Case*:** Molded plastic
- ***Epoxy*:** UL94V-0 rate flame retardant
- ***Lead*:** MIL-STD- 202E, Method 208 guaranteed
- ***Polarity*:**Color band denotes cathode end
- ***Mounting position*:** Any
- ***Weight*:** 0.19 grams

R-1



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	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 at T_A=50°C	I_o	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30							A
Maximum Instantaneous forward Voltage at 0.5A DC	V_F	1.3							V
Maximum DC Reverse Current @ T_A=25°C	I_R	5.0							μA
at Rated DC Blocking Voltage @ T_A=100°C		500							
Maximum Full Load Reverse Current Average Full Cycle .375"(9.5mm) lead length at T_L=75°C		30							
Typical Junction Capacitance (Note)	C_J	15							pF
Maximum Reverse Recovery Time	t_{rr}	150				250	500		nS
Typical Thermal Resistance	$R_{\theta JA}$	60							°C/W

Notes: Measured at 1MHz and applied reverse voltage of 4.0 volts

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