

FR101G THRU FR107G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 1.0A

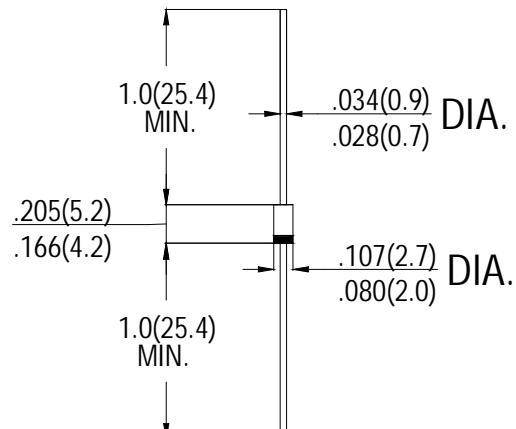
FEATURES

- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability

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:** 0.33 grams

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL 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%.

	SYMBOL	FR101G	FR102G	FR103G	FR104G	FR105G	FR106G	FR107G	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 $T_A=75^\circ C$	I_o								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}								A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F								V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ C$	I_R								μA
Maximum Full Load Reverse Current Full Cycle Average,.375"(9.5mm) lead length at $T_L=75^\circ C$									
Maximum Reverse Recovery Time (Note 1)	t_{rr}				150	250	500		ns
Typical Junction Capacitance (Note 2)	C_J				15				pF

Notes: 1.Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

2.Measured at 1MHz and applied reverse voltage of 4.0 volts