

BA157G THRU BA159G

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE: 400-1000V

CURRENT: 1.0A

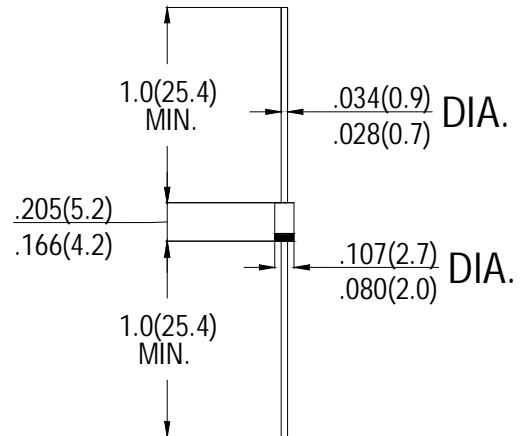
FEATURES

- 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 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%.

	SYMBOL	BA157G	BA158G	BA159G	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	1000	V
Maximum RMS Voltage	V_{RMS}	280	420	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	1000	V
Maximum Average Forward rectified Current at $T_A=75^\circ\text{C}$	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 1.0A DC	V_F	1.3			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$	I_R	5.0			μA
Maximum Full Load Reverse Current Full Cycle Average, .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$		100			
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: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

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