

BA157 THRU BA159

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE: 400-1000V

CURRENT: 1.0A

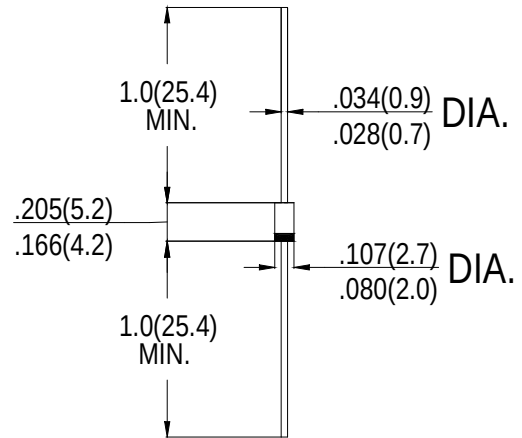
FEATURES

- 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	BA157	BA158	BA159	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°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°C	I_R	5.0			μA
Maximum Full Load Reverse Current Full Cycle Average,.375”(9.5mm) lead length at T _L =75°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: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

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