



BA157 thru BA159

1.0 Amp. Fast Recovery Rectifiers
Voltage Range 400 to 1000 Volts Forward Current 1.0 Ampere

Features

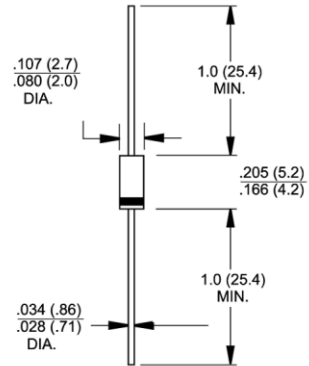
- ◆ Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- ◆ High surge current capability
- ◆ Void-free plastic package
- ◆ Fast switching for high efficiency
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



DO-204AL (DO-41)

Mechanical Data

- ◆ Case: JEDEC DO-204AL (DO-41), molded plastic body
- ◆ Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any
- ◆ Weight: 0.012 ounce, 0.33 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	BA157	BA158	BA159D	BA159	Units
Maximum repetitive peak reverse voltage	V _{RRM}	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.0				Amp
Peak forward surge current 10ms single half sine-wave superimposed on rated load at T _A =25°C	I _{FSM}	20.0				Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.3				Volts
Maximum DC reverse current at rated DC blocking voltage T _A =25°C	I _R	5.0				uA
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _T =0.25A	t _{rr}	150	250	500		nS
Typical junction capacitance at 4.0V, 1MHz	C _J	12				pF
Maximum operation junction temperature	T _J	-65 to +125				°C
Maximum storage temperature	T _{STG}	-65 to +150				°C

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

