

## BA157G THRU BA159G

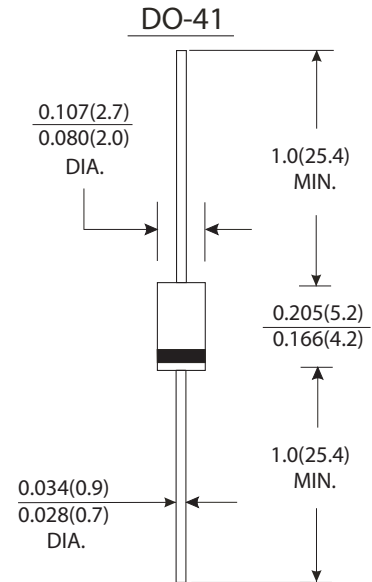
CURRENT 1.0 Ampere  
VOLTAGE 400 to 1000 Volts

### Features

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Fast switching speed
- Glass passivated junction
- High current capability
- High temperature soldering guaranteed : 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs.(2.3kg) tension.

### Mechanical Data

- Case : JEDEC DO-41 molded plastic body
- Terminals : Plated axial lead 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, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	BA157G	BA158G	BA159G	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	400	600	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	280	420	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	400	600	1000	Volts
Maximum average forward rectified current Rload at T <sub>A</sub> =50°C	I <sub>(AV)</sub>	1.0			Amp
Peak forward surge current 10ms single half sine-wave superimposed on rated load at Rload at T <sub>A</sub> =25°C	I <sub>FSM</sub>	35.0			Amps
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.3			Volts
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> =25°C	I <sub>R</sub>	5.0			μA
Maximum reverse recovery time (Note 1)	T <sub>rr</sub>	150	250	500	ns
Max. thermal resistance	R <sub>θJA</sub>	60			°C/W
Typical junction capacitance (Note 2)	C <sub>J</sub>	6.0			pF
Operating junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-65 to +175			°C

#### Notes:

- (1) Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A.
- (2) Measured at 1MHz and applied reverse voltage of 4.0 Volts.

## RATINGS AND CHARACTERISTIC CURVES BY157G THRU BA159G

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

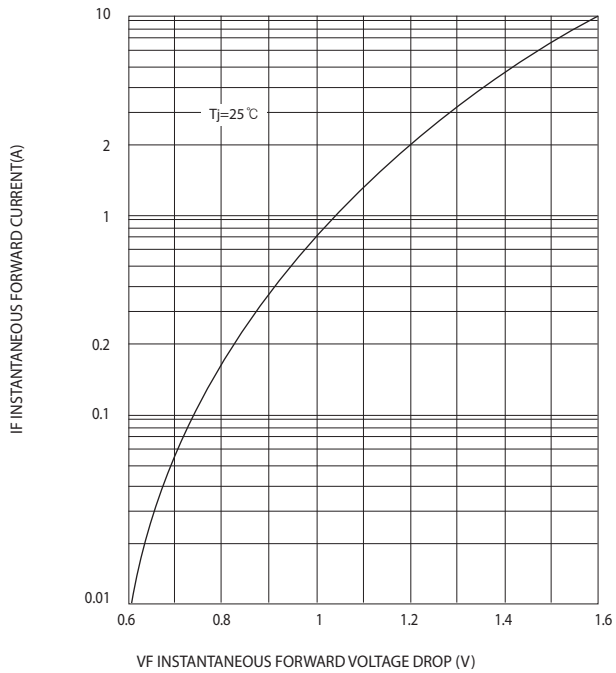


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

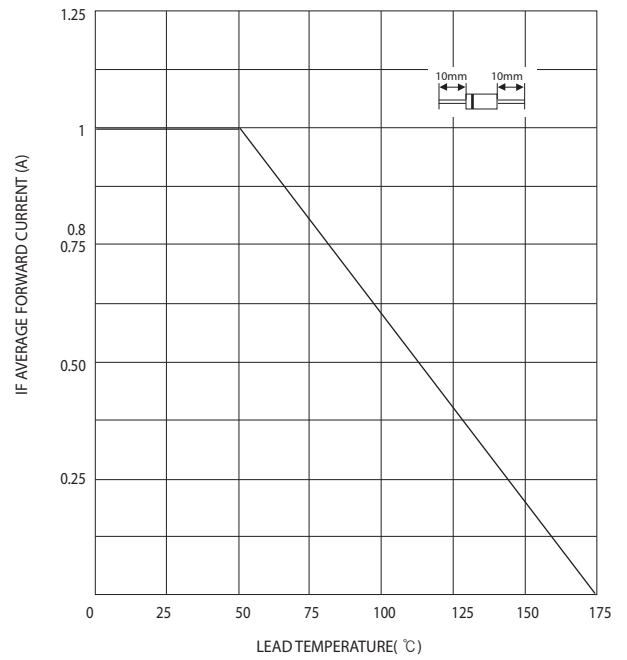


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

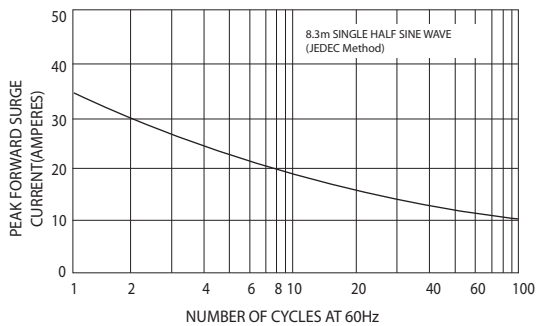


FIG.4-TYPICAL JUNCTION CAPACITANCE

