

BA157G THRU BA159G

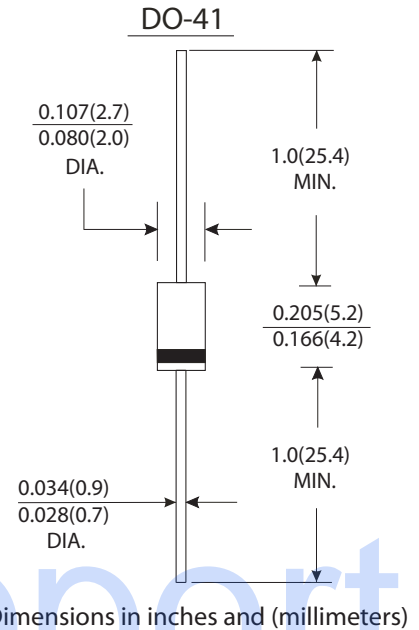
CURRENT 1.0 Ampere
VOLTAGE 400 to 1000 Volts

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



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 _{RRM}	400	600	1000	Volts
Maximum RMS voltage	V _{RMS}	280	420	700	Volts
Maximum DC blocking voltage	V _{DC}	400	600	1000	Volts
Maximum average forward rectified current Rload at T _A =50°C	I _(AV)	1.0			Amp
Peak forward surge current 10ms single half sine-wave superimposed on rated load at Rload at T _A =25°C	I _{FSM}	35.0			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			μA
Maximum reverse recovery time (Note 1)	T _{rr}	150	250	500	ns
Max. thermal resistance	R _{θJA}	60			°C/W
Typical junction capacitance (Note 2)	C _J	6.0			pF
Operating junction and storage temperature range	T _J T _{STG}	-65 to +175			°C

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.

RATINGS AND CHARACTERISTIC CURVES BY157G THRU BA159G

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

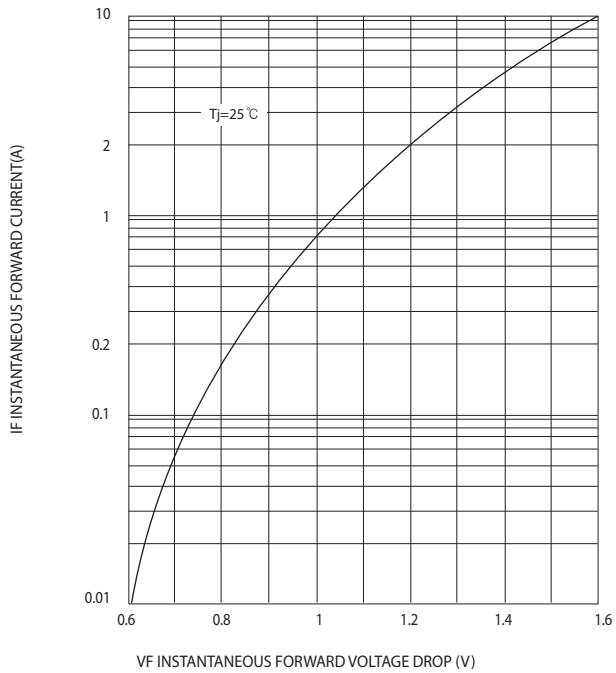


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

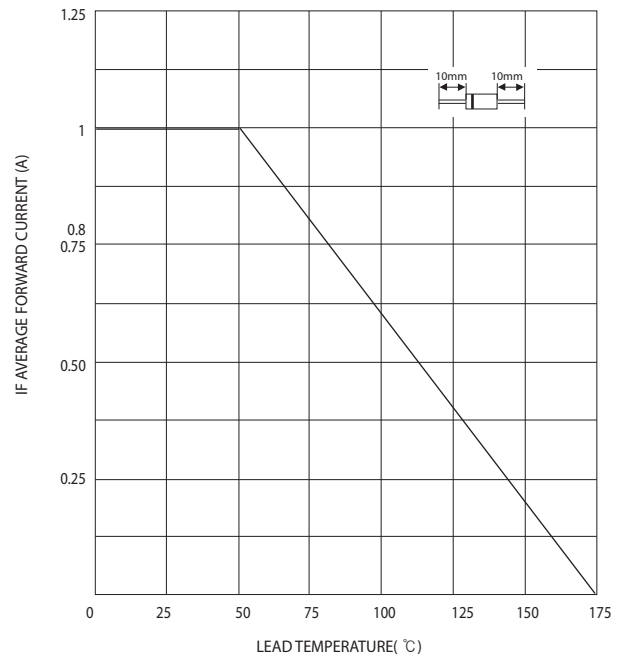


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

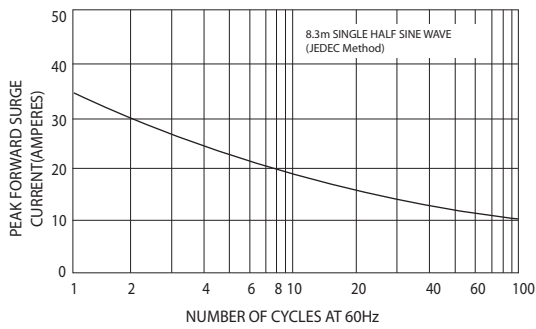


FIG.4-TYPICAL JUNCTION CAPACITANCE

