

BA157G THRU BA159G

**GLASS PASSIVATED
FAST RECOVERY RECTIFIER**
VOLTAGE: 400 TO 1000V CURRENT: 1.0A



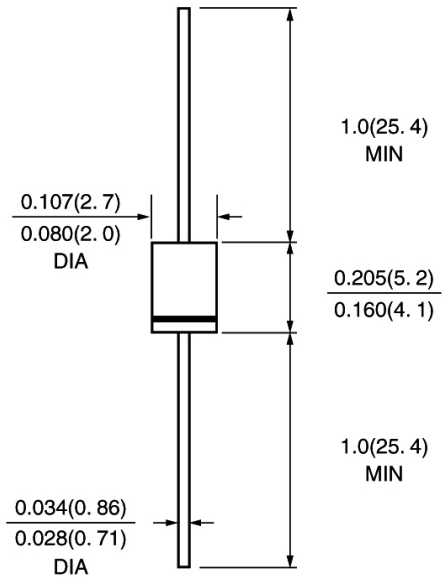
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
Fast switching capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

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Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	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 3/8" lead length at Ta =55°C	I _{f(av)}	1.0			A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	30.0			A
Maximum Instantaneous Forward Voltage at Rated forward current	V _f	1.25			V
Maximum DC Reverse Current Ta =25°C At rated DC blocking voltage Ta =125°C	I _r	5.0 100.0			μA
Typical Junction Capacitance (Note 1)	C _j	15.0			pF
Typical Thermal Resistance (Note 2)	R _{th(ja)}	55			°C/W
Maximum Reverse Recovery Time (Note 3)	T _{rr}	150		250	nS
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +150			°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted
Test Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A

RATINGS AND CHARACTERISTIC CURVES BA157G THRU BA159G

FIG. 1 - FORWARD CURRENT DERATING CURVE

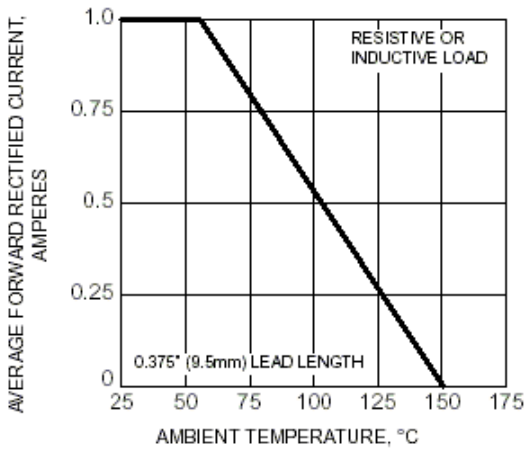


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

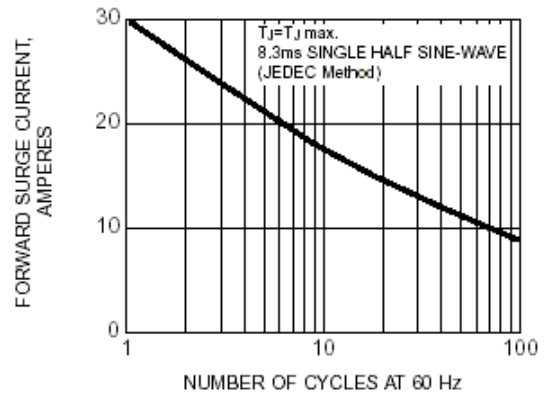


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

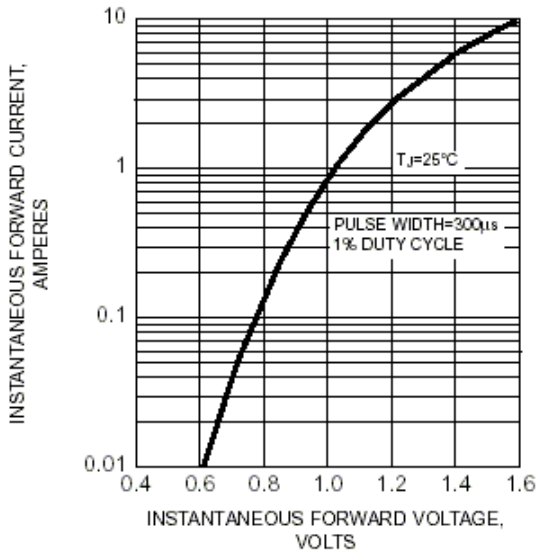


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

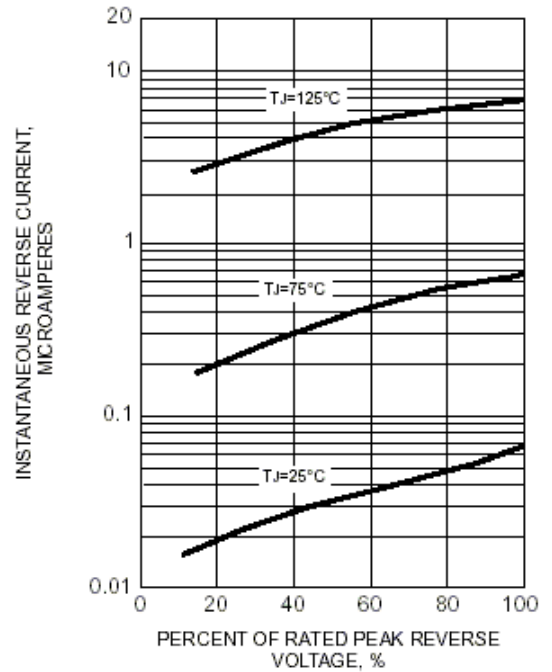


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

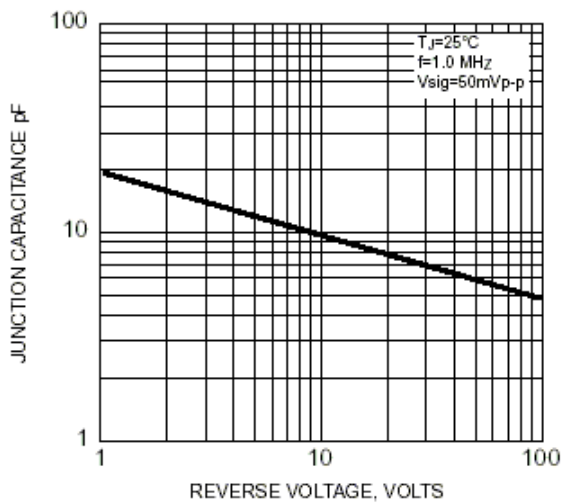


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

