BA157G THRU BA159G

GLASS PASSIVATED
FAST RECOVERY RECTIFIER

VOLTAGE: 400 TO 1000V **CURRENT: 1.0A**

GULF SEMI

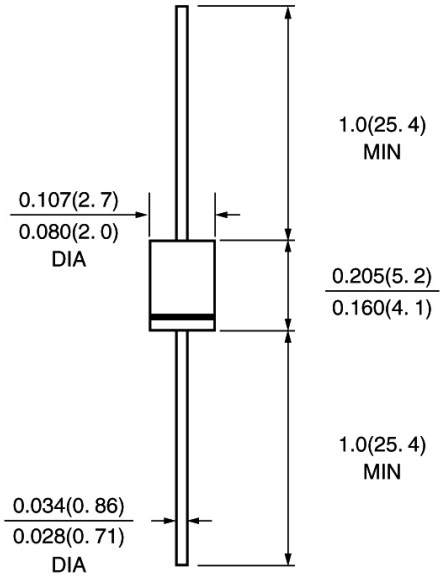
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
Fast switching capability
High temperature soldering guaranteed
250℃ /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

DO - 41\DO- 204AL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BA157G	BA158G	BA159G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	600	1000	V
Maximum RMS Voltage	Vrms	280	420	700	V
Maximum DC blocking Voltage	Vdc	400	600	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55℃	If(av)	1.0			A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	30.0			A
Maximum Instantaneous Forward Voltage at Rated forward current	Vf	1.25			V
Maximum DC Reverse Current Ta =25℃ At rated DC blocking voltage Ta =125℃	Ir	5.0 100.0			μA
Typical Junction Capacitance (Note 1)	Cj	15.0			pF
Typical Thermal Resistance (Note 2)	Rth(ja)	55			℃/W
Maximum Reverse Recovery Time (Note 3)	Trr	150		250	nS
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150			℃

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 If =0.5A, Ir =1.0A, Irr =0.25A

RATINGS AND CHARACTERISTIC CURVES BA157G THRU BA159G

FIG. 1 - FORWARD CURRENT DERATING CURVE

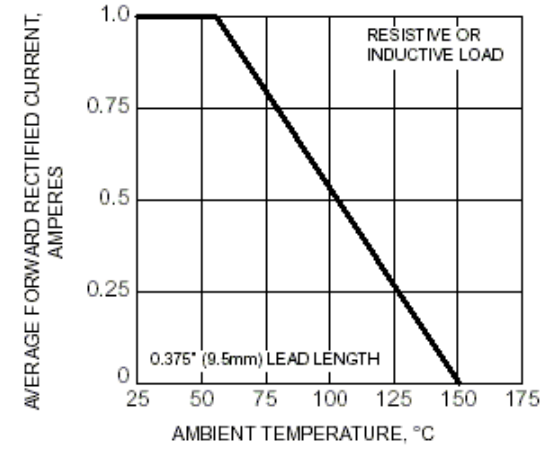


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

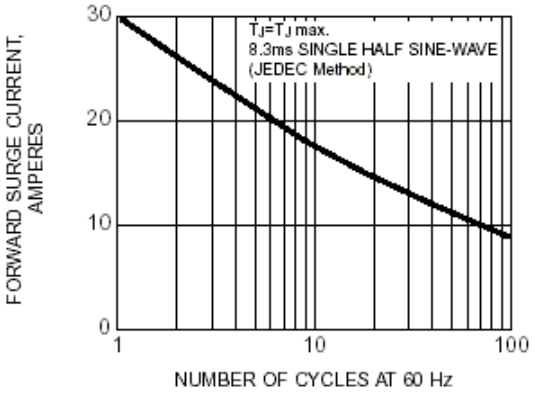


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

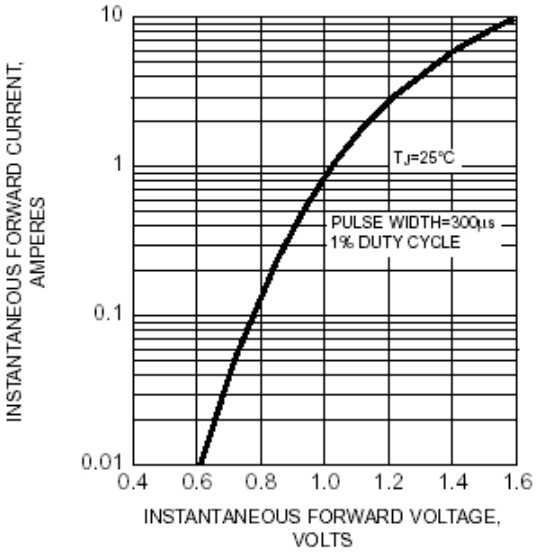


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

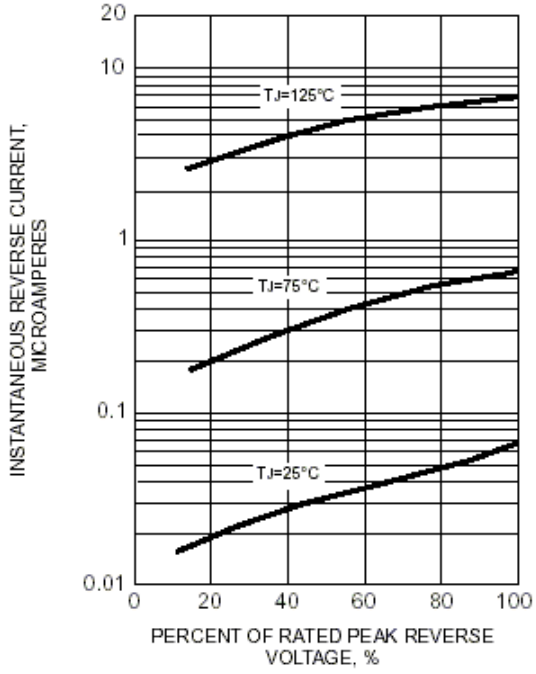


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

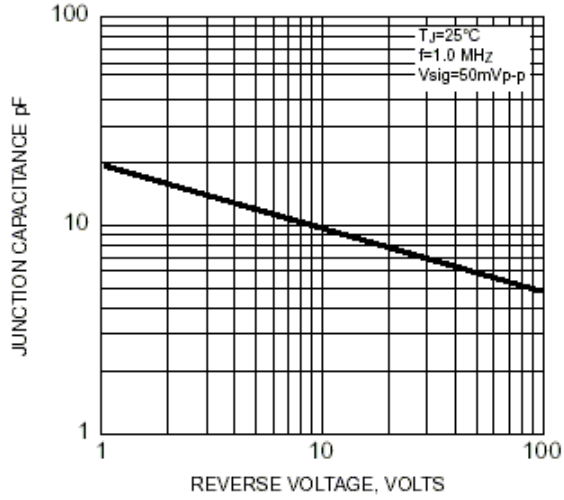


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE