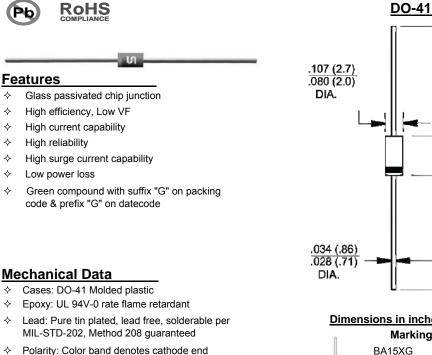


BA157G - BA159G

1.0AMP Glass Passivated Fast Recovery Rectifiers



∻

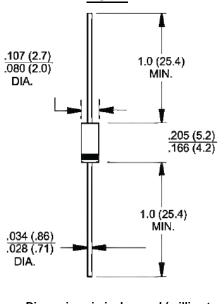
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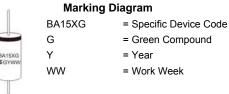
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Mechanical Data

- ∻
- ∻
- ♦ Polarity: Color band denotes cathode end
- ♦ High temperature soldering guaranteed: 260°C/10s /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.34 grams

Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	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 .375 (9.5mm) Lead Length @ $T_{\rm A}$ =45 $^\circ\!{\rm C}$	I _{F(AV)}	1		А	
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30			А
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	1.2			V
Maximum DC Reverse Current at@ $T_A=25 \degree$ Rated DC Blocking Voltage@ $T_A=125 \degree$	I _R	5 100			uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	150		250	nS
Typical Junction Capacitance (Note 3)	Cj	15		pF	
Typical Thermal Resistance (Note 4)	R _{θjA}	60		°C/W	
Operating Temperature Range	TJ	- 65 to + 150			°C
Storage Temperature Range	T _{STG}	- 65 to + 150			°C

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

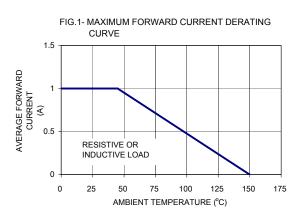
Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

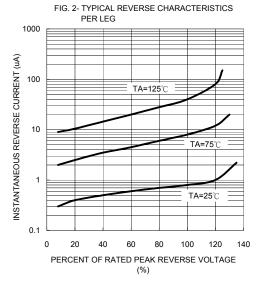
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

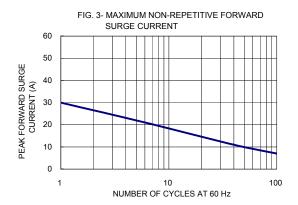
Note 4: Mount on Cu-Pad Size 5mm x 5mm on PCB



RATINGS AND CHARACTERISTIC CURVES (BA157G THRU BA159G)









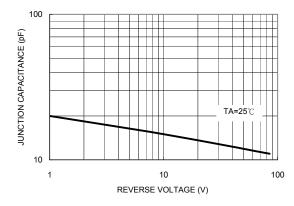


FIG. 5- TYPICAL FORWARD CHARACTERISRICS

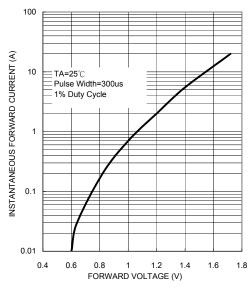
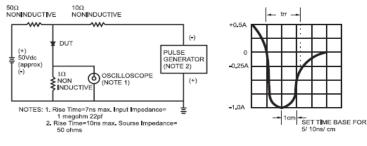


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



Version:C10