

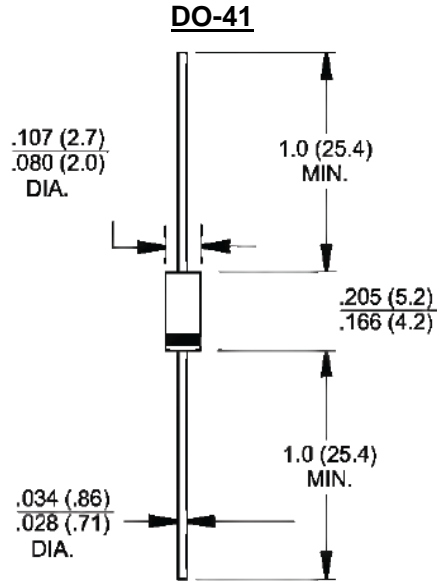


**Features**

- ✧ High efficiency, Low VF
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability
- ✧ Low power loss
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode

**Mechanical Data**

- ✧ Cases: DO-41 Molded plastic
- ✧ Epoxy: UL 94V-0 rate flame retardant
- ✧ Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ✧ 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)**

**Marking Diagram**



- BA15X = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

**Maximum Ratings and Electrical Characteristics**

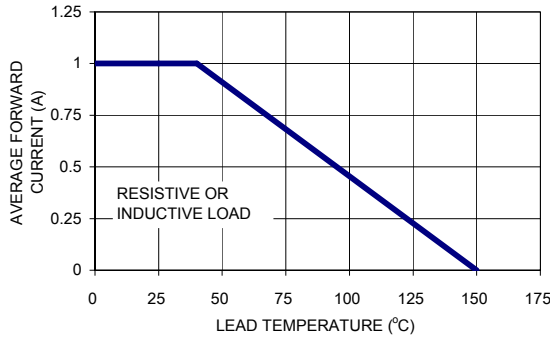
Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

Type Number	Symbol	BA157	BA158	BA159	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 @ $T_A=45^\circ C$	$I_{F(AV)}$	1			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	30			A
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	$V_F$	1.2			V
Maximum DC Reverse Current at @ $T_A=25^\circ C$	$I_R$	5			$\mu A$
Rated DC Blocking Voltage @ $T_A=125^\circ C$		150			$\mu A$
Maximum Reverse Recovery Time (Note 2)	$T_{rr}$	150		250	nS
Typical Junction Capacitance (Note 3)	$C_j$	10			pF
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	65			$^\circ C/W$
Operating Temperature Range	$T_J$	- 65 to + 150			$^\circ C$
Storage Temperature Range	$T_{STG}$	- 65 to + 150			$^\circ C$

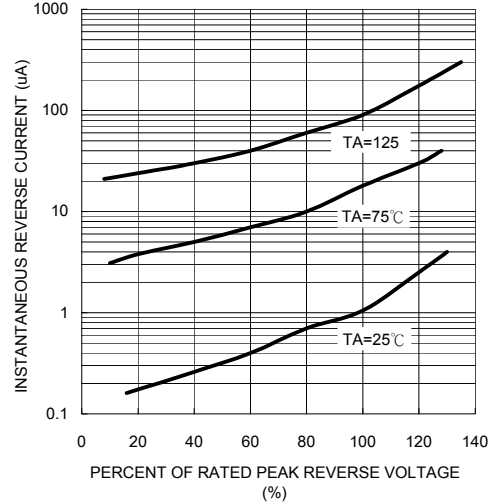
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle  
 Note 2: Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$   
 Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.  
 Note 4: Mount on Cu-Pad Size 5mm x 5mm on PCB

**RATINGS AND CHARACTERISTIC CURVES (BA157 THRU BA159)**

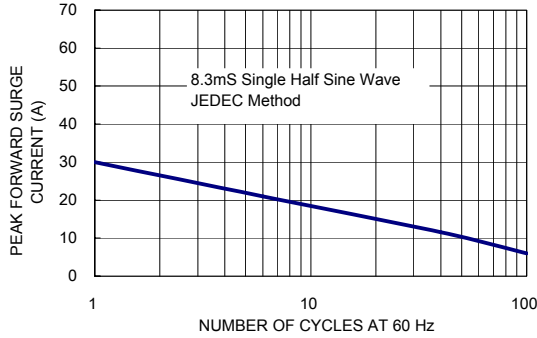
**FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE**



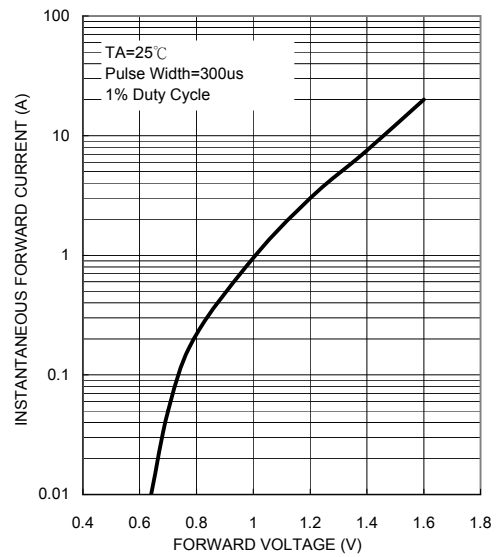
**FIG. 2- TYPICAL REVERSE CHARACTERISTICS PER LEG**



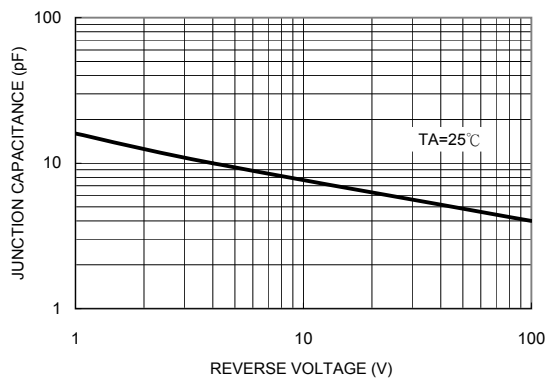
**FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



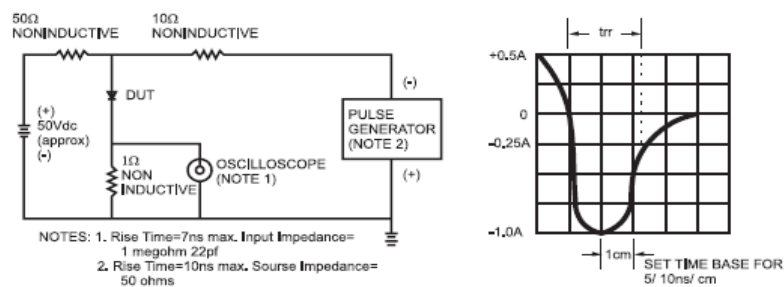
**FIG. 5- TYPICAL FORWARD CHARACTERISTICS**



**FIG. 4- TYPICAL JUNCTION CAPACITANCE**



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



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