

- ✧ 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
- ✧ Weight: 0.34 grams

Ordering Information (example)

Part No.	Package	Packing	INNER TAPE	Packing code	Packing code (Green)
BA157G	DO-41	3K / AMMO box	52mm	A0	A0G

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	BA157G	BA158G	BA159G
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	1000
Maximum RMS Voltage	V_{RMS}	280	420	700
Maximum DC Blocking Voltage	V_{DC}	400	600	1000
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1		
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30		
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V_F	1.2		
Maximum DC Reverse Current at @ $T_A=25\text{ }^\circ\text{C}$ Rated DC Blocking Voltage @ $T_A=125\text{ }^\circ\text{C}$	I_R	5 100		
Maximum Reverse Recovery Time (Note 2)	T_{rr}	150		250
Typical Junction Capacitance (Note 3)	C_j	15		
Typical Thermal Resistance	$R_{\theta JA}$	60		
Operating Temperature Range	T_J	- 55 to + 150		
Storage Temperature Range	T_{STG}	- 55 to + 150		

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

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

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

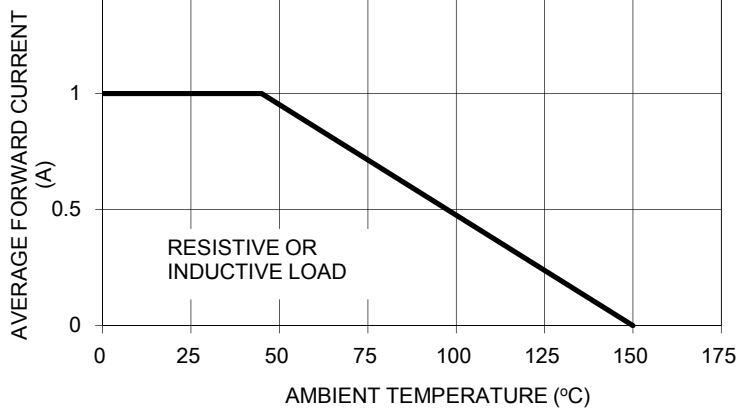


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

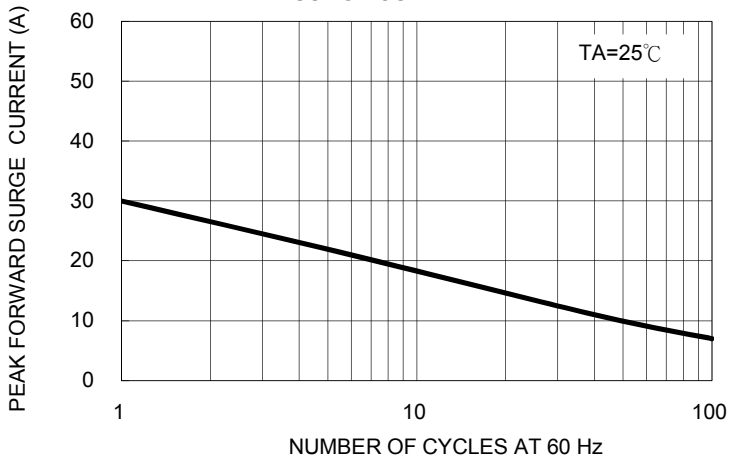


FIG. 4- TYPICAL JUNCTION CAPACITANCE

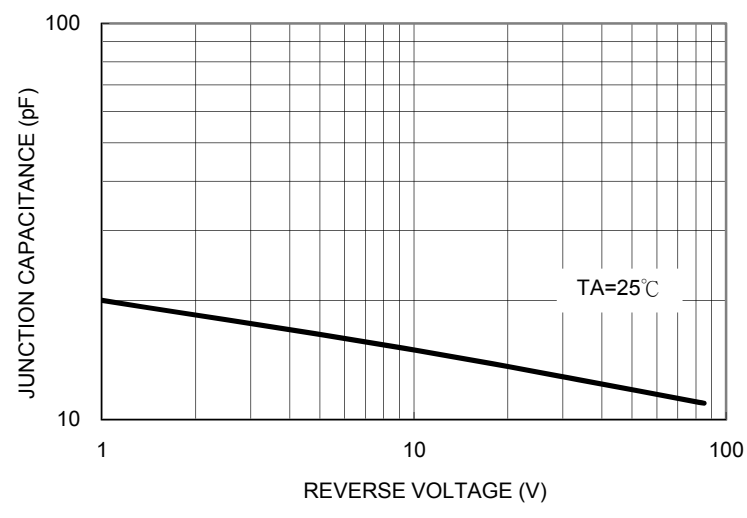


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

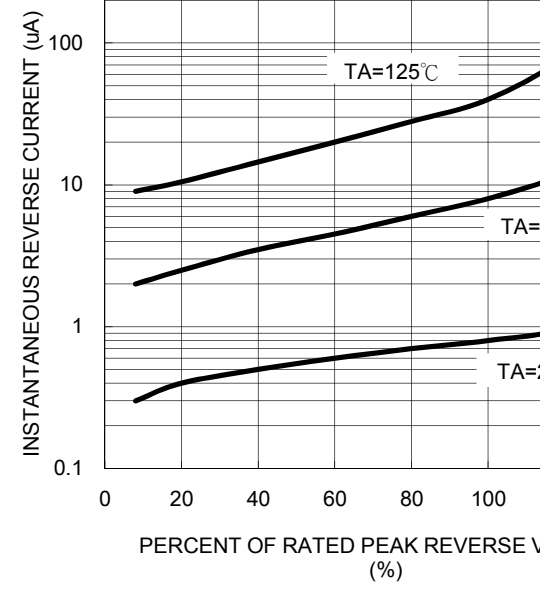
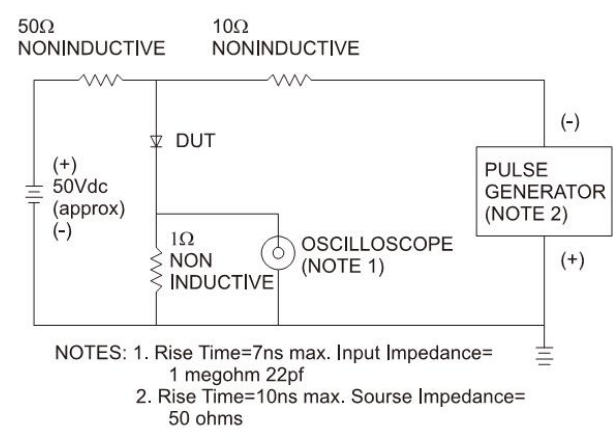
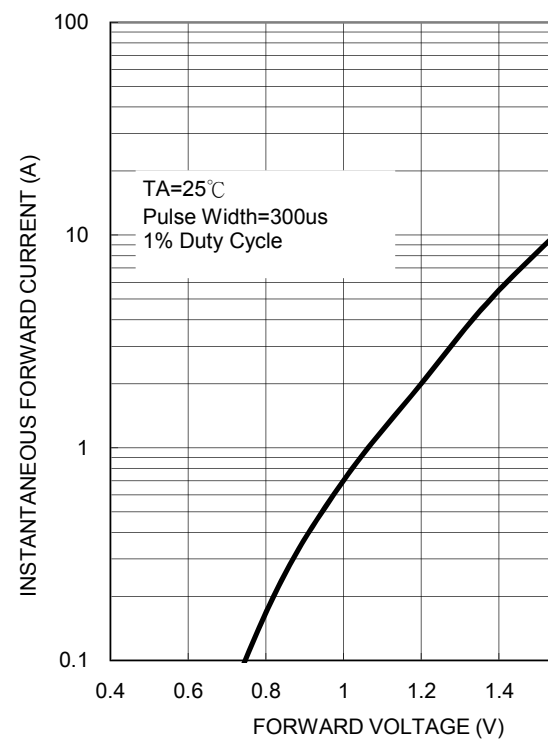


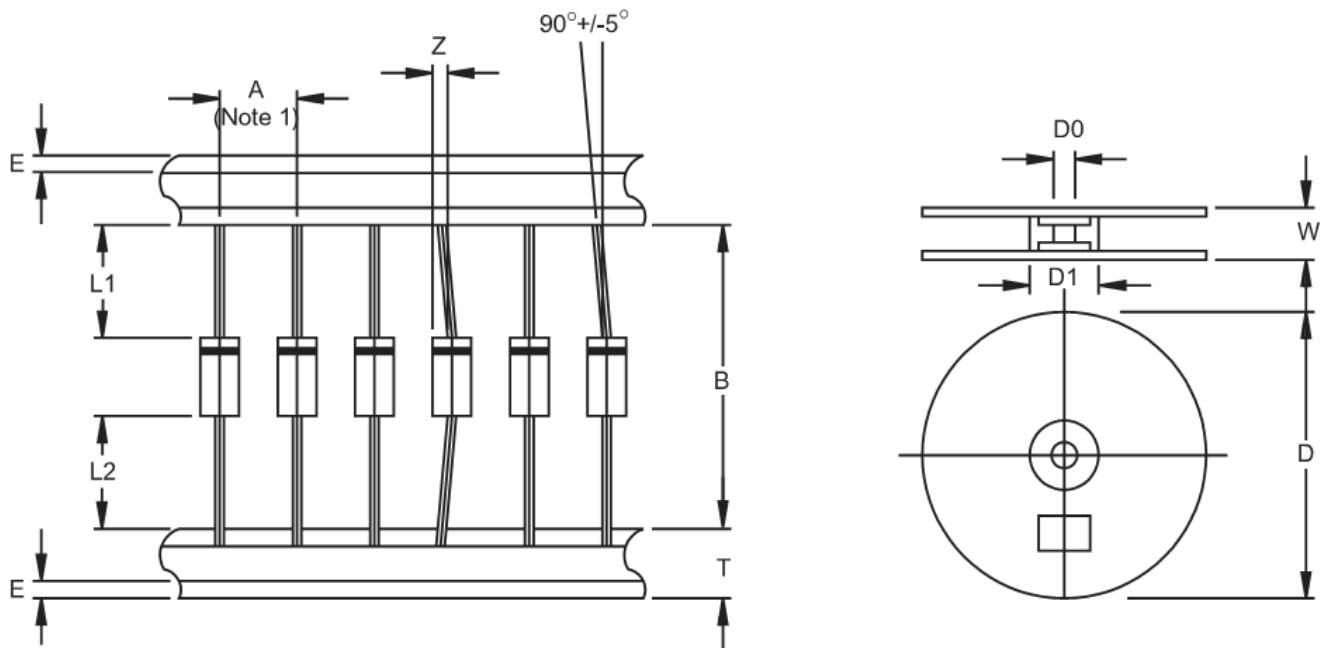
FIG. 5- TYPICAL FORWARD CHARACTERISTICS



BA15xG	DO-41	3K / AMMO box	26mm	A1	A1G
	DO-41	5K / 13" Reel	52mm	R0	R0G
	DO-41	5K / 13" Reel	52mm	R1	R1G
	DO-41	1K / Bulk packing		B0	B0G

Note: "x" is Device Code from "7" thru "9".

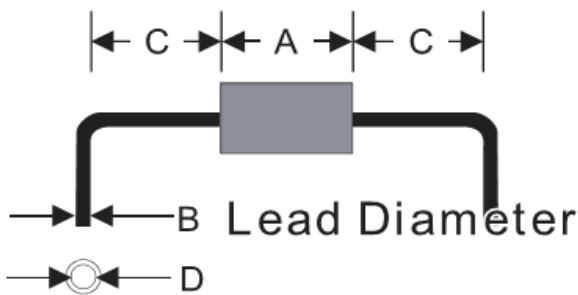
AXIAL LEAD TAPING SPECIFICATIONS



Outline	A	B	Z	T	E	L1-L2	D	D1	D0	
		±0.5	±1.5	MAX	±0.4	MAX	MAX		±0.3	±0.4
DO-41	5	26	1.2	6	0.8	1	330	85.7	16.6	
DO-41	5	52.4	1.2	6	0.8	1	330	85.7	16.6	

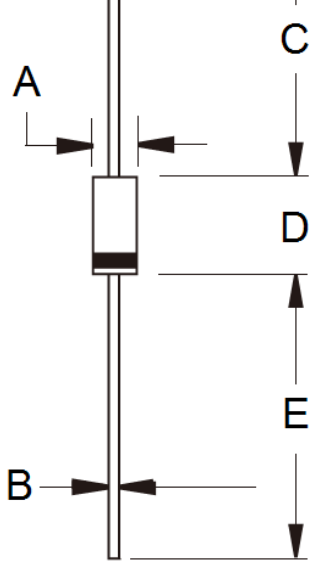
Unit (mm)

Suggested Mounting Hole Rule



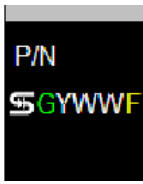
Symbol	Unit(mm)
A	5.1
B	0.8
C	3.0
D	1.2

Version:E13



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	2.00	2.70	0.079	0.106
B	0.71	0.86	0.028	0.034
C	25.40	-	1.000	-
D	4.20	5.20	0.165	0.205
E	25.40	-	1.000	-

Marking Diagram



- P/N = Specific Device Code
- G = Green Compound
- YWW = Date Code
- F = Factory Code