

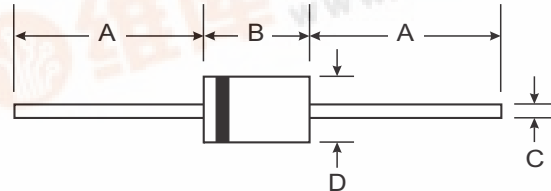


1N4933G/L - 1N4937G/L

1.0A FAST RECOVERY GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Lead Free Finish, RoHS Compliant (Note 4)



Mechanical Data

- Case: DO-41, A-405
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish - Bright Tin. Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- DO-41 Weight: 0.35 grams (approximate)
- A-405 Weight: 0.20 grams (approximate)

	DO-41		A-405	
Dim	Min	Max	Min	Max
A	25.40	—	25.40	—
B	4.06	5.21	4.10	5.20
C	0.71	0.864	0.53	0.64
D	2.00	2.72	2.00	2.70
All Dimensions in mm				

“GL” Suffix Designates A-405 Package
“G” Suffix Designates DO-41 Package

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	1N4933 G/GL	1N4934 G/GL	1N4935 G/GL	1N4936 G/GL	1N4937 G/GL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	V
Average Rectified Output Current (Note 1) @ $T_A = 75^\circ\text{C}$	I_O	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30					A
Forward Voltage @ $I_F = 1.0\text{A}$	V_{FM}	1.2					V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	5.0 100					μA
Reverse Recovery Time (Note 3)	t_{rr}	200					ns
Typical Junction Capacitance (Note 2)	C_j	15					pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100					K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150					$^\circ\text{C}$

- Notes:
1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3. Measured with $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{rr} = 0.25\text{A}$.
 4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



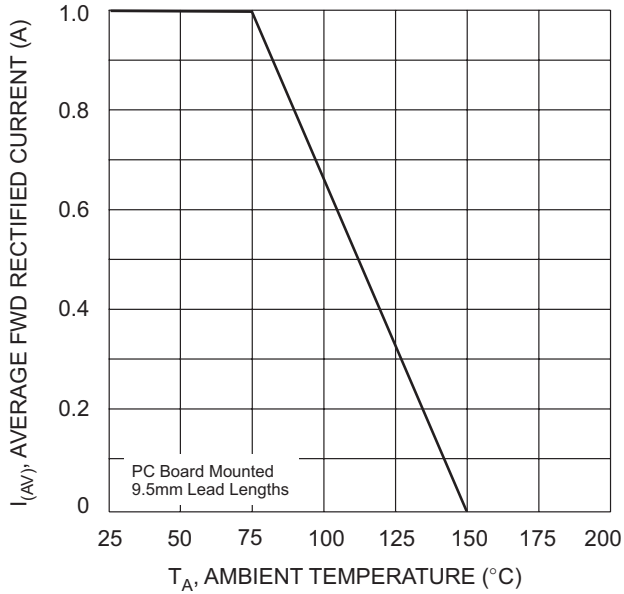


Fig. 1 Forward Current Derating Curves

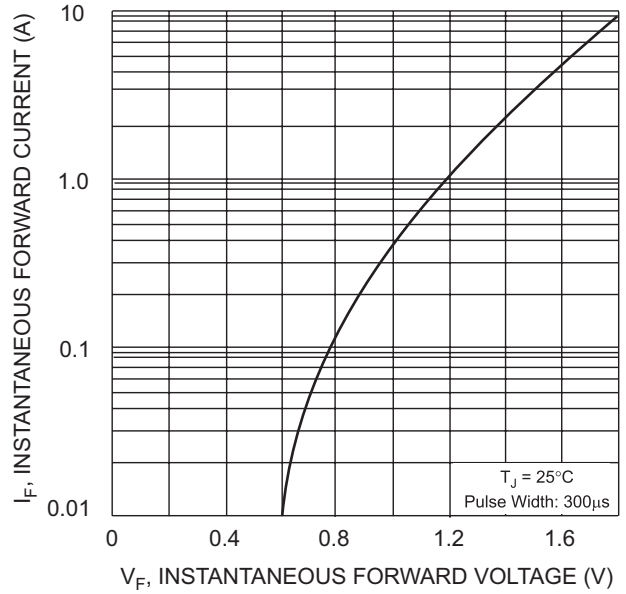


Fig. 2 Typical Forward Characteristics

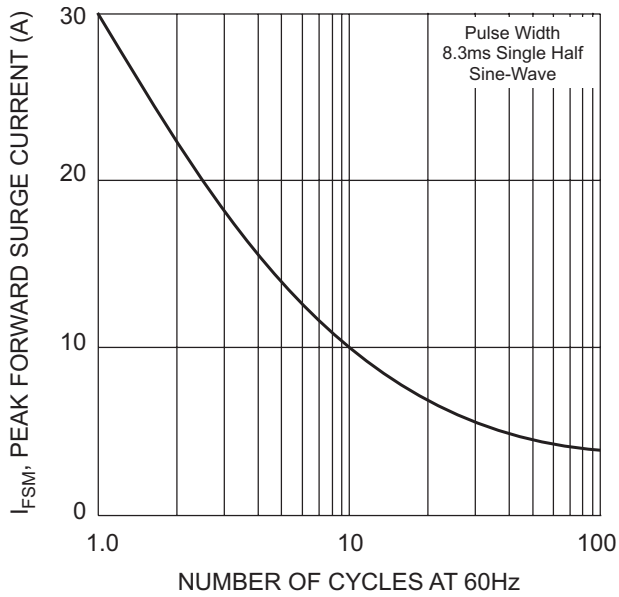


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

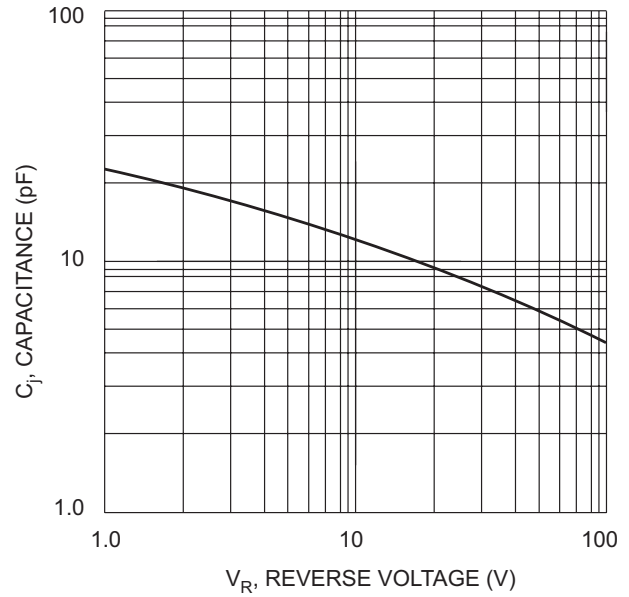
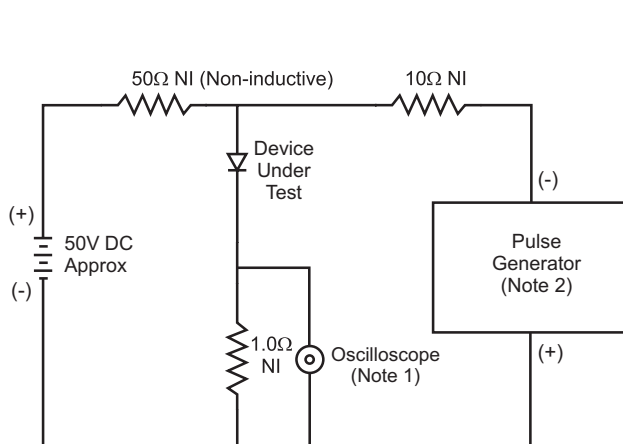


Fig. 4 Typical Junction Capacitance



Notes:

1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
2. Rise Time = 10ns max. Input Impedance = 50Ω.

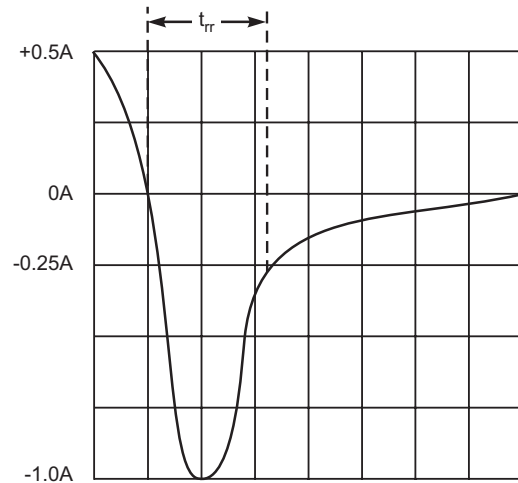


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



Ordering Information (Note 5)

Device	Packaging	Shipping
1N4933G-A	DO-41	5K/Ammo Pack
1N4933G-B	DO-41	1K/Bulk
1N4933G-T	DO-41	5K/Tape & Reel, 13-inch
1N4934G-A	DO-41	5K/Ammo Pack
1N4934G-B	DO-41	1K/Bulk
1N4934G-T	DO-41	5K/Tape & Reel, 13-inch
1N4935G-A	DO-41	5K/Ammo Pack
1N4935G-B	DO-41	1K/Bulk
1N4935G-T	DO-41	5K/Tape & Reel, 13-inch
1N4936G-A	DO-41	5K/Ammo Pack
1N4936G-B	DO-41	1K/Bulk
1N4936G-T	DO-41	5K/Tape & Reel, 13-inch
1N4937G-A	DO-41	5K/Ammo Pack
1N4937G-B	DO-41	1K/Bulk
1N4937G-T	DO-41	5K/Tape & Reel, 13-inch
1N4933GL-T	A-405	5K/Tape & Reel, 13-inch
1N4934GL-T	A-405	5K/Tape & Reel, 13-inch
1N4935GL-T	A-405	5K/Tape & Reel, 13-inch
1N4936GL-T	A-405	5K/Tape & Reel, 13-inch
1N4937GL-T	A-405	5K/Tape & Reel, 13-inch

Notes: 5. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap02008.pdf>

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