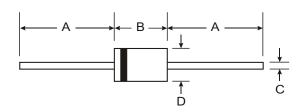


1N4933G/L - 1N4937G/L

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
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandMarking: Type Number

DO-41 Weight: 0.35 grams (approx.)A-405 Weight: 0.20 grams (approx.)

	DO	-41	A-405					
Dim	Min	Max	Min	Max				
Α	25.40	_	25.40	_				
В	4.06	5.21	4.10	5.20				
С	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 @ TA = 25°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°C		Io	1.0					
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	30					А
Forward Voltage	@ I _F = 1.0A	V_{FM}			1.2			V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		I _{RM}	5.0 100					μА
Reverse Recovery Time (Note 3)		t _{rr}	200					ns
Typical Junction Capacitance (Note 2)		Cj	15					pF
Typical Thermal Resistance Junction to Ambient		R _{θJA}	100					K/W
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150					°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 IF 0.5A, IR = 1.0A, Irr = 0.25A.



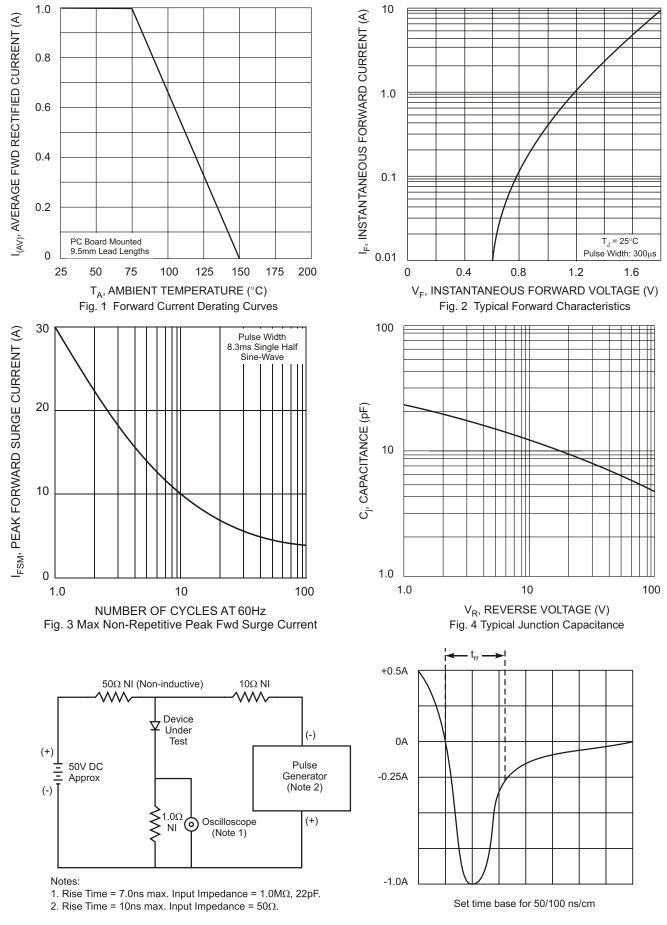


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit