

1N4933G - 1N4937G

1.0 AMP. Glass Passivated Fast Recovery Rectifiers

DO-41

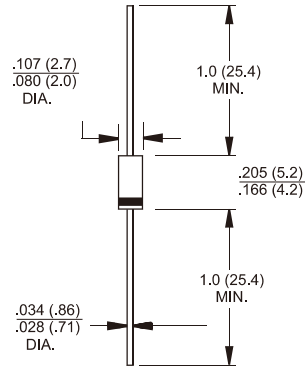


Features

- ✧ Glass passivated chip junction.
- ✧ 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: Molded plastic DO-41
- ✧ 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/10 seconds/.375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 0.34grams



Dimensions in inches and (millimeters)

Marking Diagram



- 1N493XG = 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	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _A = 75 °C	IF(AV)	1.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	30					A
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.2					V
Maximum DC Reverse Current at @ T _A =25 °C Rated DC Blocking Voltage (Note 1) @ T _A =125 °C	IR	5.0 100					uA uA
Maximum Reverse Recovery Time (Note 4)	Trr	200					nS
Typical Junction Capacitance (Note 2)	Cj	10					pF
Typical Thermal Resistance (Note 3)	RθJA	65					°C/W
Operating Temperature Range	TJ	-65 to +150					°C
Storage Temperature Range	TSTG	-65 to +150					°C

- Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
 3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.
 4. Reverse Recovery Test Conditions: IF=1.0A, VR=30V, di/dt=50A/uS, Irr=10% IRM for Measurement of trr.

RATINGS AND CHARACTERISTIC CURVES (1N4933G THRU 1N4937G)

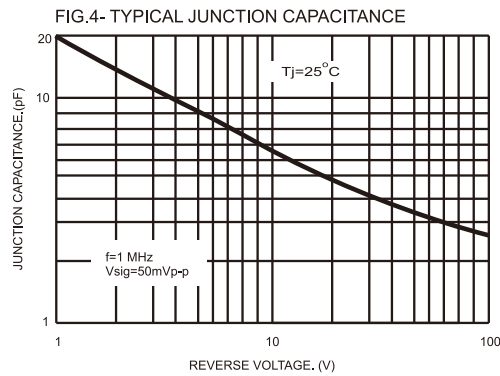
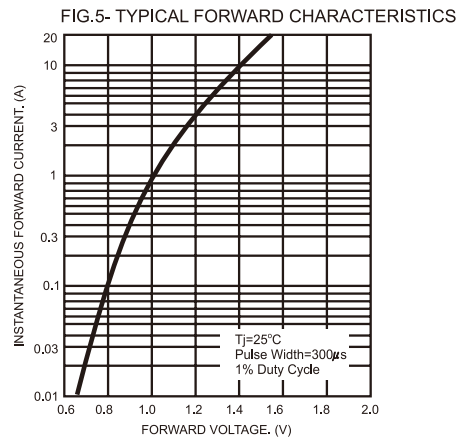
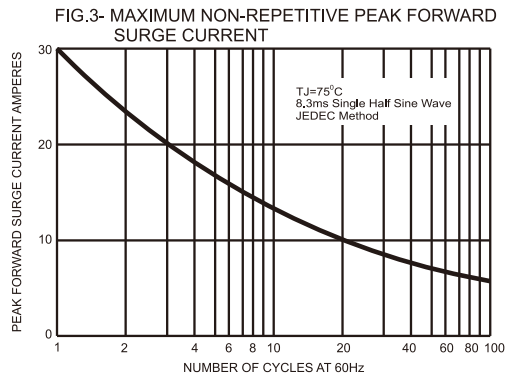
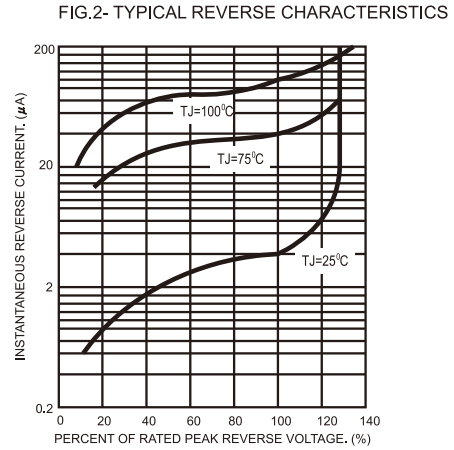
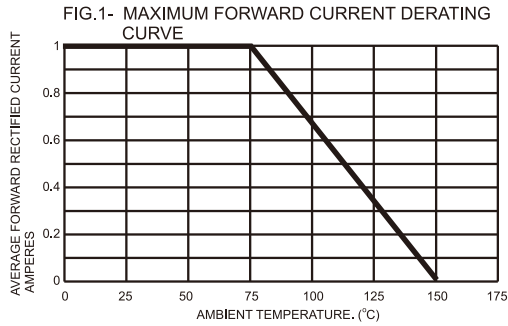


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

