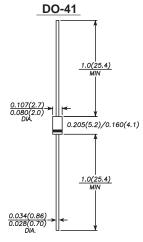
# 1N4933G THRU 1N4937G

## FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

## **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- → High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- ◆ Glass passivated chip junction

#### **MECHANICAL DATA**

Case: DO-41 molded plastic body

**Terminals**: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

	SYMBOLS	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	UNITS
Maximum repetitive 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	Icaso	I(AV) 1.0					А
0.375"(9.5mm) lead length at Ta=75℃	I(AV)						
Peak forward surge current							
8.3ms single half sine-wave superimposed on	Ifsm   30.0						Α
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	VF	1.2					V
Maximum DC reverse current Ta=25℃		5.0					μА
at rated DC blocking voltage Ta=100℃	lr		50.0				
Maximum reverse recovery time (NOTE 1)	trr	200					ns
Typical junction capacitance (NOTE 2)	Cı	15.0					pF
Typical thermal resistance (NOTE 3)	RθJA	50.0					°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150					°C

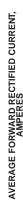
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

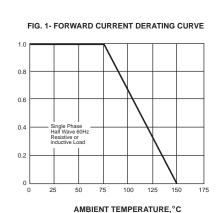
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

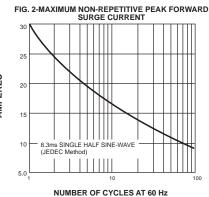


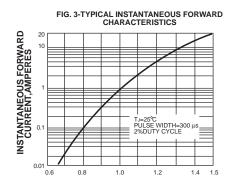
## **RATINGS AND CHARACTERISTIC CURVES 1N4933G THRU 1N4937G**



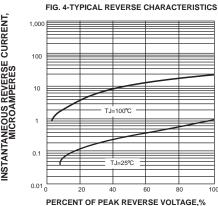




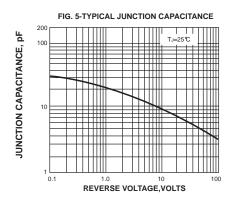


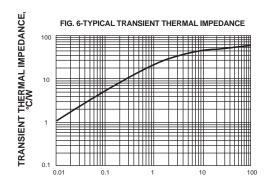






INSTANTANEOUS FORWARD VOLTAGE,





t,PULSE DURATION,sec.

