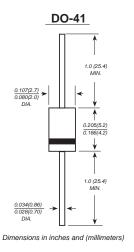


# 1N4933G THRU 1N4937G

#### **FAST RECOVERY GLASS PASSIVATED RECTIFIERS**

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



## **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:
- 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **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%.

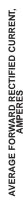
MDD Catalog Number	SYMBOLS	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	VOLTS
Maximum average forward rectified current	I(AV) 1.0					A man	
0.375"(9.5mm) lead length at Ta=75°C	I(AV)	1.0					Amp
Peak forward surge current							
8.3ms single half sine-wave superimposed on	IFSM 30.0					Amps	
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 1.0A	VF	1.2					Volts
Maximum DC reverse current Ta=25°C		5.0					μА
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>		50.0				
Maximum reverse recovery time (NOTE 1)	trr	200					ns
Typical junction capacitance (NOTE 2)	C¹	15.0					pF
Typical thermal resistance (NOTE 3)	RθJA	50.0					°C/W
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>		-65 to +150				

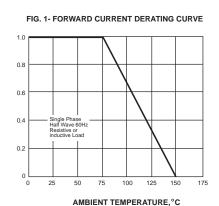
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

- 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

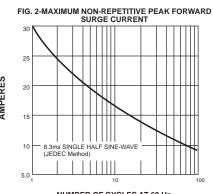
# MDD ELECTRONIC

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

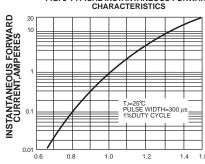






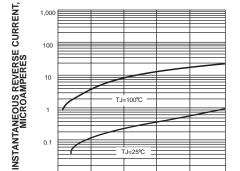




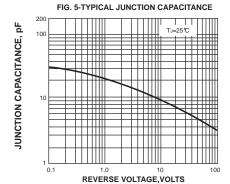


NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,

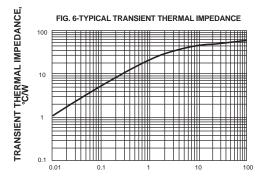




60

40

0.01



t,PULSE DURATION,sec.

MDD ELECTRONIC