

# 1N4933G THRU 1N4937G

## FAST RECOVERY GLASS PASSIVATED RECTIFIERS

### FEATURES:

- High temperature bonded construction
- Fast switching for use in high frequency circuit
- No thermal runaway at 1.0 Amp. Current  $T_a=75^\circ\text{C}$
- High temperature soldering guaranteed :  $250^\circ\text{C}/10$  seconds, 0.375" lead length, 5lbs.(2.3kg) tension

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

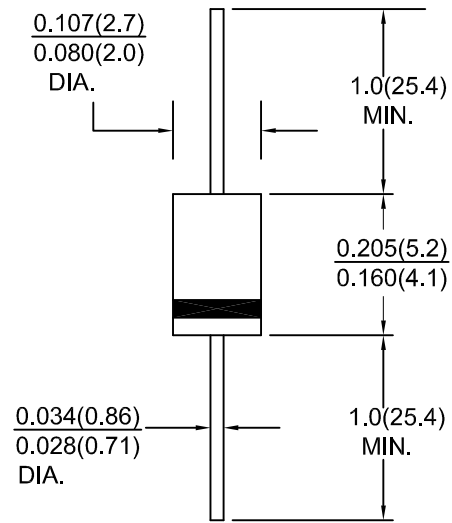
Terminals : Axial leads, solderable per MIL-STD-202, Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.33 grams, 0.012 ounce

### DO-204AL(DO-41)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at  $25^\circ\text{C}$  ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

| Characteristic  | Symbol         | 1N4933G      | 1N4934G | 1N4935G | 1N4936G | 1N4937G | Units                     |
|---|----------------|--------------|---------|---------|---------|---------|---------------------------|
| Maximum recurrent peak reverse voltage  | $V_{RRM}$      | 50           | 100     | 200     | 400     | 600     | Volts                     |
| Maximum RMS voltage   | $V_{RMS}$      | 35           | 70      | 140     | 280     | 420     | Volts                     |
| Maximum DC blocking voltage   | $V_{DC}$       | 50           | 100     | 200     | 400     | 600     | Volts                     |
| Maximum average forward rectified current<br>.375 lead length at $T_a=75^\circ\text{C}$             | $I_{(AV)}$     | 1.0          |         |         |         |         | Amps                      |
| Peak forward surge current ,8.3ms single half sine-wave<br>superimposed on rated load(JEDEC Method) | $I_{FSM}$      | 30.0         |         |         |         |         | Amps                      |
| Maximum instantaneous forward voltage drop<br>at 1.0 A  | $V_F$          | 1.2          |         |         |         |         | Volts                     |
| Maximum DC reverse current<br>at rated DC blocking voltage  | $I_R$          | 5.0<br>100.0 |         |         |         |         | $\mu\text{A}$             |
| Typical reverse recovery time (note 1)  | $t_{rr}$       | 200          |         |         |         |         | nS                        |
| Typical thermal resistance  | $R_{th-JA}$    | 10           |         |         |         |         | $^\circ\text{C}/\text{W}$ |
| Typical junction capacitance (note 2)   | $C_j$          | 15.0         |         |         |         |         | pF                        |
| Operating junction and storage temperature range  | $T_j, T_{stg}$ | -65 to +150  |         |         |         |         | $^\circ\text{C}$          |

NOTES:1. Reverse recovery test condition;  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RN}=0.25\text{A}$

2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC

# RATINGS AND CHARACTERISTIC CURVES 1N4933G THRU 1N4937G

