



## 1N4933G THRU 1N4937G

### GLASS PASSIVATED FAST RECOVERY RECTIFIER

TECHNICAL  
SPECIFICATION

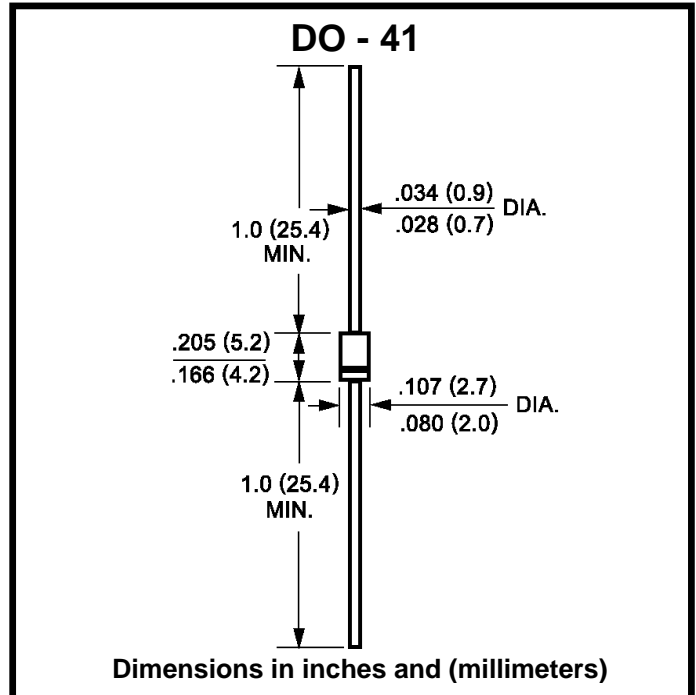
**VOLTAGE: 50 TO 600V CURRENT: 1.0A**

#### FEATURES

- Molded case feature for auto insertion
- Glass passivated chip
- Fast switching for high efficiency
- High current capability
- Low leakage current
- High surge capability
- High temperature soldering guaranteed:  
250°C/10sec/0.375"(9.5mm) lead length  
at 5 lbs tension

#### MECHANICAL DATA

- Terminal: Plated axial leads solderable per  
MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O  
recognized flame retardant epoxy
- Polarity: Color band denotes cathode
- Mounting position: Any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	V
Maximum Average Forward Rectified Current (9.5mm lead length, at $T_a=75^\circ\text{C}$ )	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	30.0					A
Maximum Forward Voltage (at rated forward current and 25°C)	$V_F$	1.2					V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ (at rated DC blocking voltage) $T_a=100^\circ\text{C}$	$I_R$	5.0 100					$\mu\text{A}$ $\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	200					nS
Typical Junction Capacitance (Note 2)	$C_J$	15.0					pF
Typical Thermal Resistance (Note 3)	$R_{\theta(ja)}$	50.0					°C/W
Storage and Operation Junction Temperature	$T_{STG}, T_J$	-65 to +150					°C

Note:

- 1.Reverse recovery condition  $I_F=1.0\text{A}$ ,  $V_R=30\text{V}$
- 2.Measured at 1.0 MHz and applied voltage of  $4.0V_{dc}$
- 3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted