

1N4933G~1N4937G

GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

VOLTAGE	50 to 600Volt	CURRENT	1 Ampere
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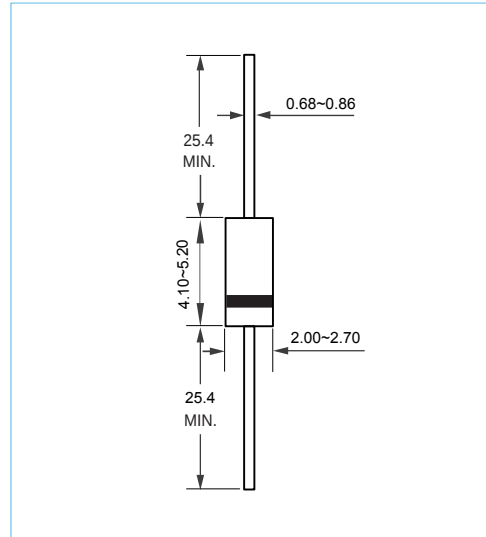
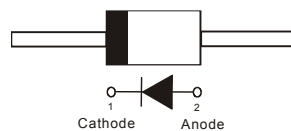
DO-41 Unit:mm

FEATURES

- High efficiency,
- High current capability
- High reliability
- Lead free in compliance with EU RoHS
- Fast switching for high efficiency

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	UNITS
Maximum Recurrent 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 Current (see FIG.1)	$I_{F(AV)}$	1					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30					A
Maximum Forward Voltage at 1A	V_F	1.2					V
Maximum DC Reverse Current at at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	I_R	1.0 100					μA
Typical Junction Capacitance	C_J	12					pF
Maximum Reverse Recovery Time	t_{rr}	200					ns
Typical Thermal Resistance	$R_{\theta JA}$	67					$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150					$^{\circ}C$

NOTES:1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$

2. Measured at 1 MHz and applied reverse voltage of 4 VDC

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

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RATING AND CHARACTERISTIC CURVES

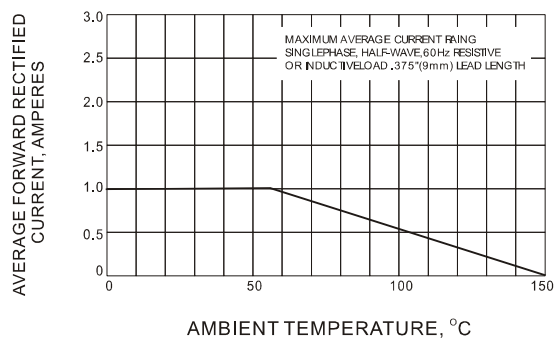


Fig.1 FORWARD CURRENT DERATING CURVE

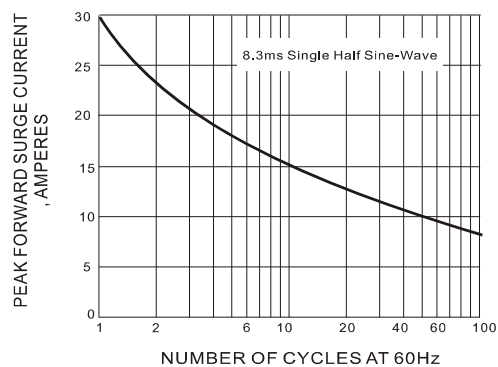


Fig.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

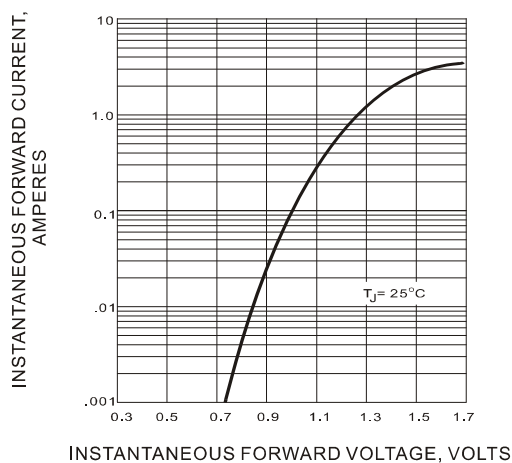


Fig.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

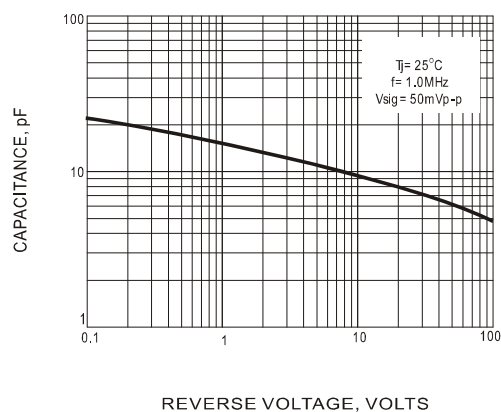


Fig.4 TYPICAL JUNCTION CAPACITANCE

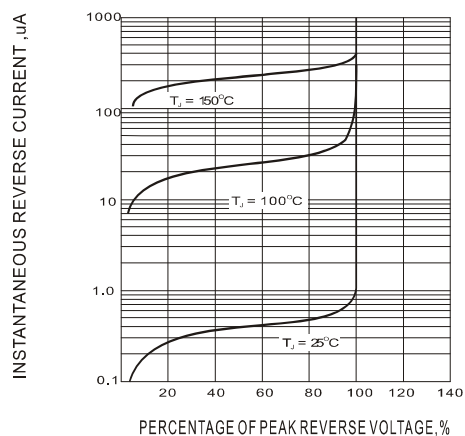


Fig.5 TYPICAL REVERSE CHARACTERISTIC

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Ordering Information

- **Packing information**

1N4933G~1N4937G	Packing Quantity
Tape&Reel	13 Inch; 5kpcs/Reel
Ammo Packing	5kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box