

CTC 1N4933G-1N4937G RECTIFIER Datasheet

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FEATURES

Fast switching for high efficiency

Glass passivated chip

Low reverse leakage current

Low forward voltage drop

High current capability

Plastic material has UL flammability classification 94V-0

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**FAST RECOVERY
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **50 to 600** Volts
FORWARD CURRENT - **1.0** Ampere

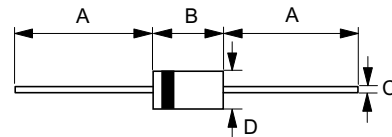
FEATURES

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- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
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MECHANICAL DATA

- Case : DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



DO-41		
Dim.	Min.	Max.
A	25.4	-
B	4.10	5.20
C	0.70 $\varnothing$	0.90 $\varnothing$
D	2.00 $\varnothing$	2.70 $\varnothing$
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

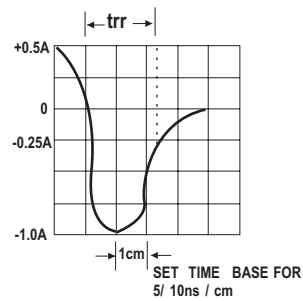
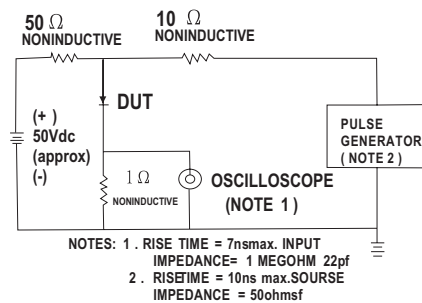
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	UNIT
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 Rectified Current @T _A =75°C	I(AV)	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	30					A
Maximum forward Voltage at 1.0A DC	V _F	1.3					V
Maximum DC Reverse Current @T _J =25°C	I _R	5.0					uA
at Rated DC Blocking Voltage @T _J =100°C		100					uA
Typical Reverse Recovery Time (Note 1)	T _{RR}	200					ns
Typical Reverse Recovery Time (Note 2)	T _{RR}	130					ns
Typical Junction Capacitance (Note 3)	C _J	15					pF
Typical Thermal Resistance (Note 4)	R _{θJA}	50					°C/W
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES : 1.Measured with I_F=1.0A,V_R=30V,di/dt=50A/us.
2.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A.
3.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
4.Thermal Resistance Junction to Ambient.

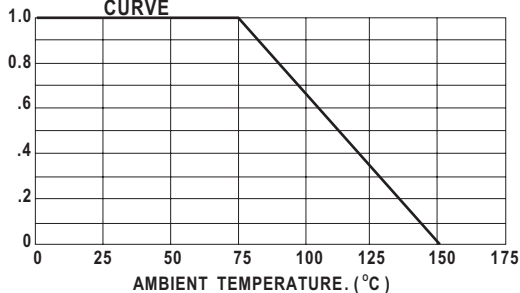
RATINGS AND CHARACTERISTIC CURVES

FIG. 1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



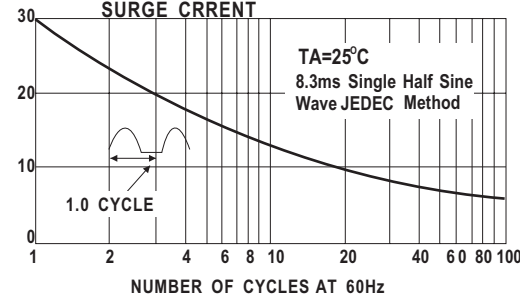
AVERAGE FORWARD RECTIFIED CURRENT
AMPERES.

FIG. 2- MAXIMUM FORWARD CURRENT DERATING
CURVE



PEAK FORWARD SURGE CURRENT
AMPERES

FIG. 3- MAXIMUM NON-REPETITIVE PEAK FORWARD
SURGE CURRENT



JUNCTION CAPACITANCE (pF)

FIG. 4- TYPICAL HUNCTION CAPACITANCE

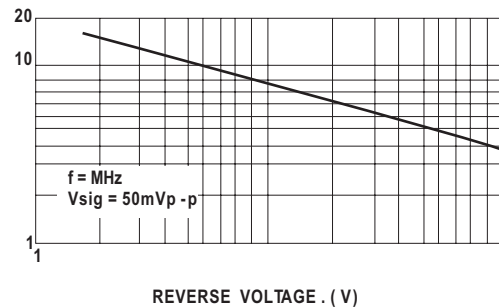


FIG. 5- TYPICAL FORWARD CHARACTERISTICS

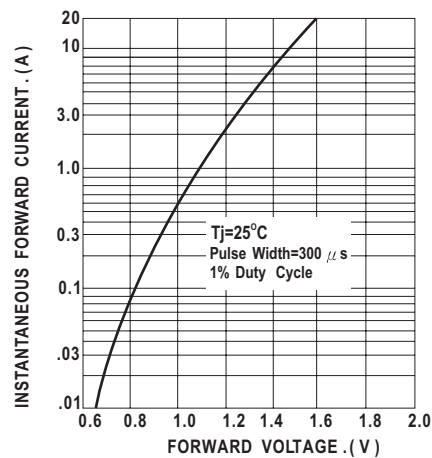


FIG. 6- TYPICAL REVERSE CHARACTERISTICS

