1N4933G THRU 1N4937G



Fast Recovery Rectifier

Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

• Package:DO-41

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

• Polarity:Color band denotes cathode end





■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600
Maximum RMS Voltage	VRMS	V	35	70	140	280	420
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600
Average Forward Current @Half-sine wave, Resistance load, Tc(Fig.1)	lo	A 1.0					
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25℃	IFSM	А			30		
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l ² t	A ² s			3.7		
Thermal Resistance(Typical) @Between junction and ambient	Røj-A	°C/W		60			
Storage Temperature	Tstg	T _{stg} °C -55 ~ +150					
Junction Temperature	Tj	$^{\circ}$	-55 ~ +150				

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G
Peak Forward Voltage	VFM	٧	I F =1.0A	1.2				
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25℃	2.5				
Feak Reverse Current			VR =V _{DC} @Ta=125℃	100				
Maximum reverse	Trr	ns	I _F =0.5A,I _R =1.0A,	150				
recovery time			I _{rr} =0.25A	150				



■ Characteristics (Typical)

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FIG.1: lo-Ta Curve FIG.2: Forward Surge Current Capability € 30 IFSM 25 0.8 8.3ms Single Half Sine Wave JEDEC Method 20 0.6 15 0.4 10 Single Phase Half Wave 60HZ 0.2 Resisteve or 5 Inductive Load 0.375"(9.5mm) Lead Length 0

150 Ta(℃)

FIG.3: Forward Voltage

100

50

FIG.4: Typical Reverse Characteristics

20

40

60 80 100

Number of Cycles

6 8 10

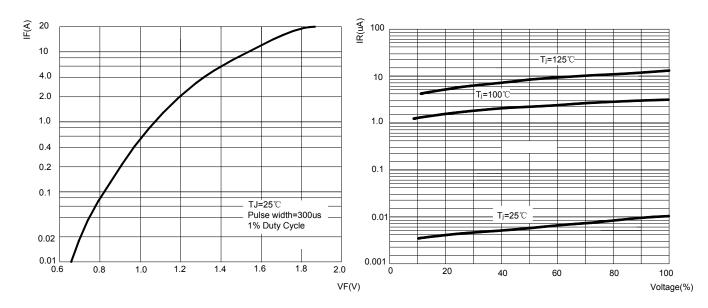
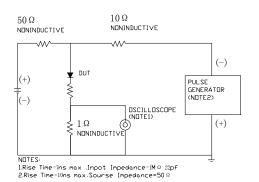
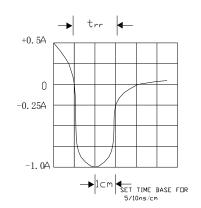


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





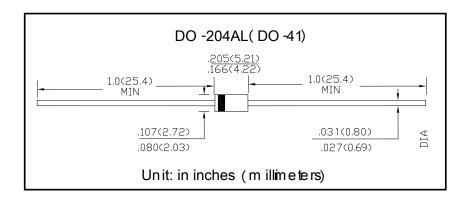
1N4933G THRU 1N4937G



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
1N4933G THRU 1N4937G	DO-41	5000	5000	50000	Ammo box	

■ Outline Dimensions



1N4933G THRU 1N4937G



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