

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 1N4936GP
Manufacturer: onsemi
Package: DO-204AL, DO-41, Axial
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/onsemi/1n4936gp.html>

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Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



1N4933GP - 1N4937GP

Features

- Low forward voltage drop.
- High surge current capability.
- High reliability.
- High current capability.



DO-41

COLOR BAND DENOTES CATHODE

Fast Rectifiers (Glass Passivated)

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value					Units
		4933G	4934	4935	4936	4937	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ T _A = 75°C	1.0					A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30					A
T _{stg}	Storage Temperature Range	-65 to +175					°C
T _J	Operating Junction Temperature	-65 to +175					°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	2.73	W
R _{θJA}	Thermal Resistance, Junction to Ambient	55	°C/W

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Device					Units
		4933G	4934	4935	4936	4937	
V _F	Forward Voltage @ 1.0 A	1.2					V
t _{rr}	Reverse Recovery Time I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A	150					ns
I _R	Reverse Current @ rated V _R T _A = 25°C T _A = 125°C	5.0 100					μA μA
C _T	Total Capacitance V _R = 4.0 V, f = 1.0 MHz	15					pF

1N4933GP-1N4937GP

Typical Characteristics

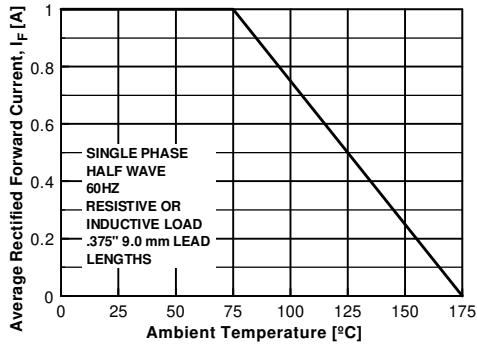


Figure 1. Forward Current Derating Curve

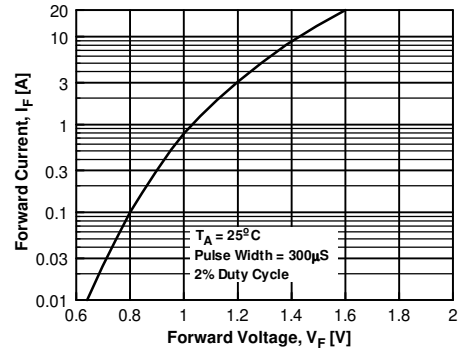


Figure 2. Forward Voltage Characteristics
Reverse Characteristics

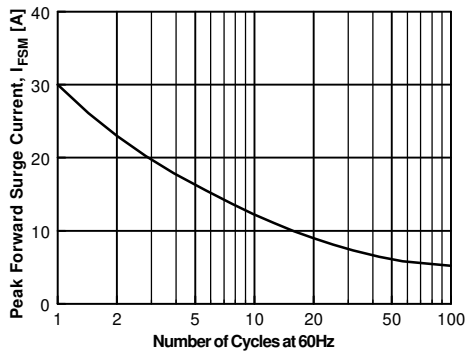


Figure 3. Non-Repetitive Surge Current

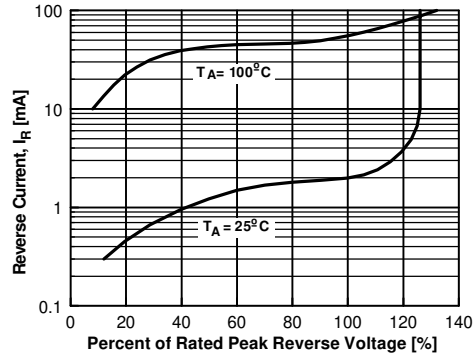


Figure 4. Reverse Current vs Reverse Voltage

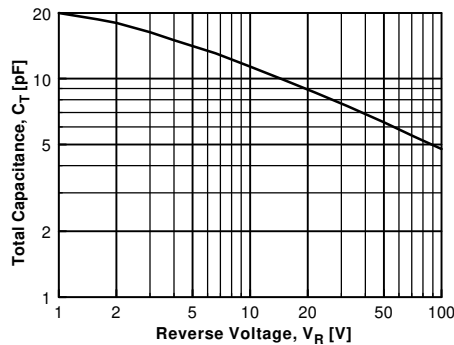
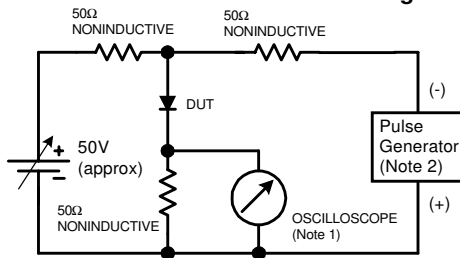


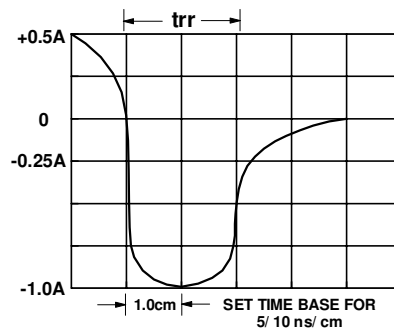
Figure 5. Total Capacitance



NOTES:

1. Rise time = 7.0 ns max; Input impedance = 1.0 megaohm 22 pf.
2. Rise time = 10 ns max; Source impedance = 50 ohms.

Reverse Recovery Time Characteristic and Test Circuit Diagram



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PRODUCT STATUS DEFINITIONS

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Datasheet Identification	Product Status	Definition
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