

1A, 50V - 600V Glass Passivated Fast Recovery Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Por Por ROCOMP

DO-204AL (DO-41)



Molding compound, UL flammability classification rating 94V-0 Part No. with suffix "H" means AEC-Q101 qualified Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Pure tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test **Weight:** 0.33 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	UNIT
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	I _{F(AV)}	1.0				А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30				А	
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.2				V	
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	5 150				μA	
Maximum reverse recovery time (Note 2)	t _{rr}	200					ns
Typical junction capacitance (Note 3)	CJ	10					рF
Typical thermal resistance	R _{θJA}	65				°C/W	
Operating junction temperature range	TJ	- 55 to +150					°C
Storage temperature range	T _{STG}	- 55 to +150					°C

Note1: Pulse Test with PW=300µs, 1% Duty Cycle

Note2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



1N4933G - 1N4937G

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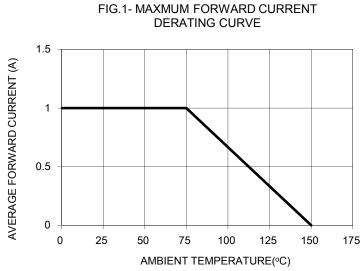
ORDERING INFORMATION						
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
	SUFFIX		SUFFIX			
1N493xG (Note 1) H		A0		DO-41	3,000 / Ammo box (52mm taping)	
	R0	G	DO-41	5,000 / 13" Paper reel		
	п	R1	G	DO-41	5,000 / 13" Paper reel (Reverse)	
		B0		DO-41	1,000 / Bulk packing	

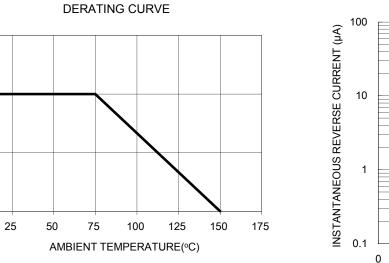
Note 1: "x" defines voltage from 50V (1N4933G) to 600V (1N4937G)

EXAMPLE							
PREFERRED PART NO.	PART NO. PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION			
1N4937GHA0G	1N4937G	Н	A0	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







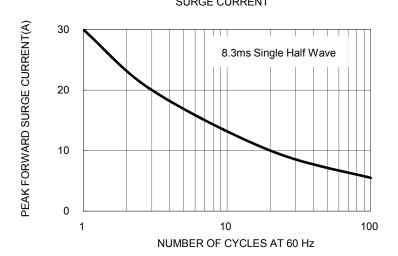
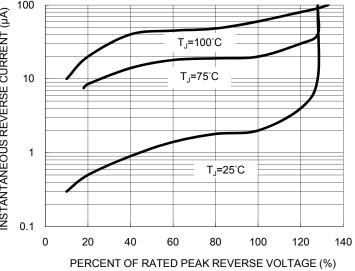
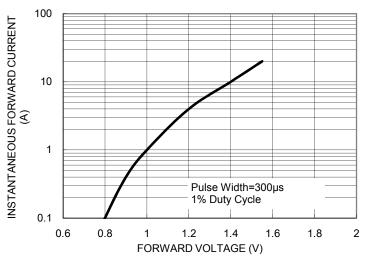


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

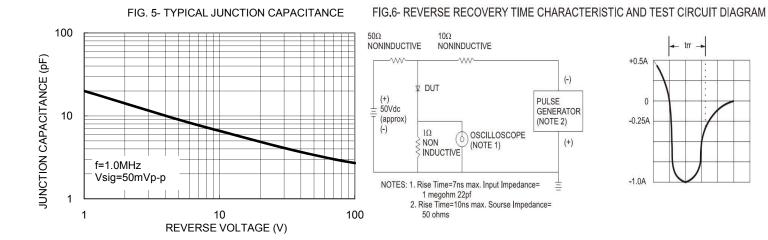


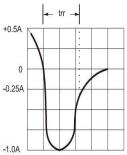




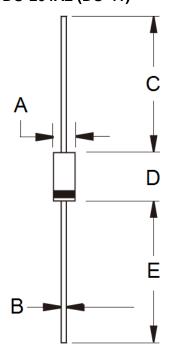


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PACKAGE OUTLINE DIMENSIONS DO-204AL (DO-41)



DIM.	Unit	(mm)	Unit (inch)		
	Min	Мах	Min	Max	
А	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
E	25.40	-	1.000	-	

MARKING DIAGRAM



Specific Device Code

G = Green Compound YWW = Date Code

P/N =

F =

Factory Code



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