

- 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

Case : DO-204AL(DO-41)

DO-204AL(DO-41)

Molding compound, UL flammability classification rating 94V-0
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant

Terminal : Matte tin plated leads, solderable per JESD22-B102
 Meet JESD 201 class 1A whisker test

Weight : 0.33 gram (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
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600
Maximum RMS voltage	V _{RMS}	35	70	140	280	420
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600
Maximum average forward rectified current	I _{F(AV)}	1.0				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30				
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.2				
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	5 150				
Maximum reverse recovery time (Note 2)	T _{rr}	200				
Typical junction capacitance (Note 3)	C _j	10				
Typical thermal resistance	R _{θJA}	65				
Operating junction temperature range	T _J	- 55 to + 150				
Storage temperature range	T _{STG}	- 55 to + 150				

Note1: Pulse Test with PW=300 usec, 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.

1N4937G (Note 1)	R0	Suffix "G"	DO-41	5000 / 13" Paper
	R1		DO-41	1000 / Bulk pack
	B0		DO-41	1000 / Bulk pack

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

EXAMPLE

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
1N4937G A0	1N4937G	A0		
1N4937G A0G	1N4937G	A0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

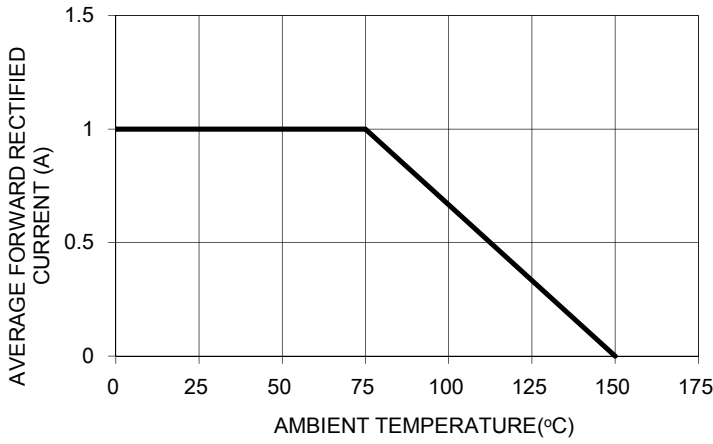


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

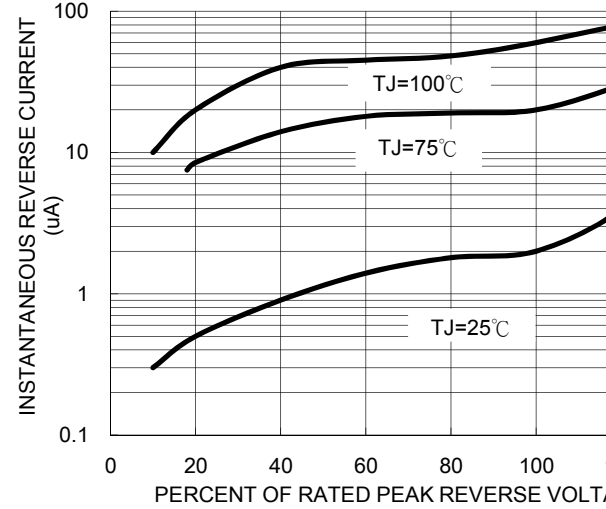


FIG. 3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

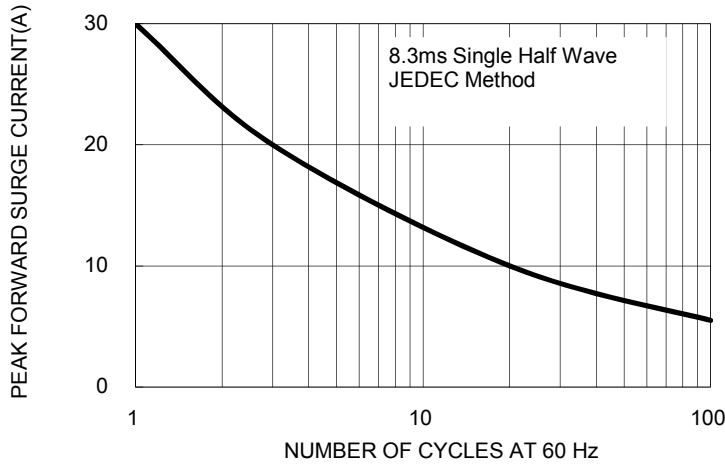
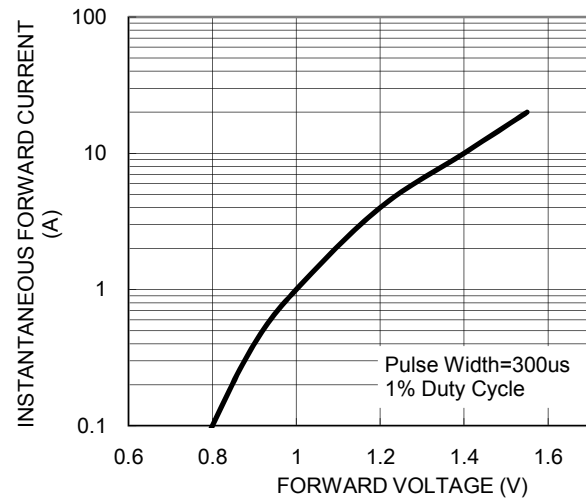


FIG. 4- TYPICAL FORWARD CHARACTERISTICS



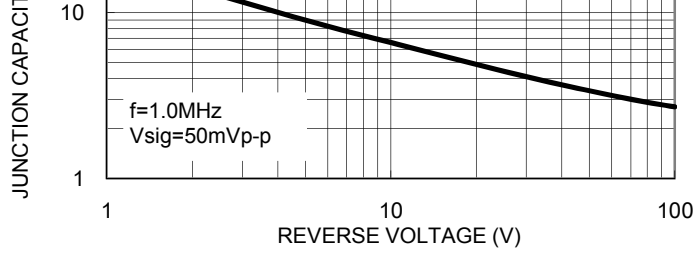
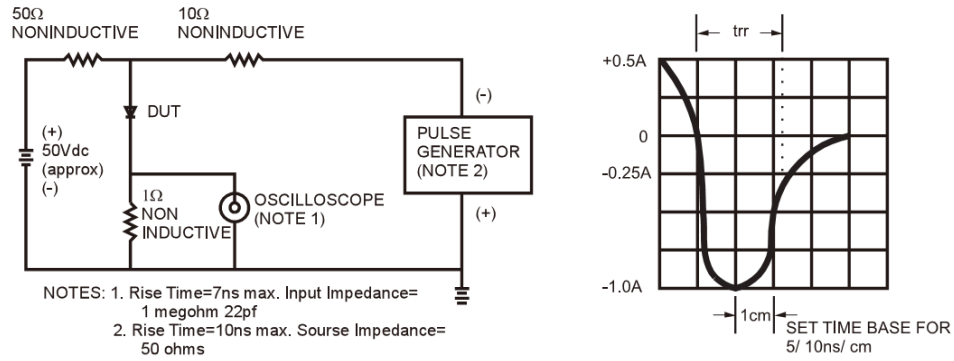
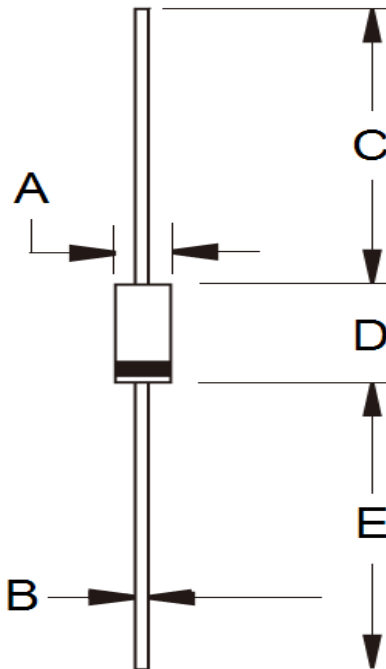


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	2.00	2.70	0.079	0.106
B	0.71	0.86	0.028	0.034
C	25.40	-	1.000	-
D	4.20	5.20	0.165	0.205
E	25.40	-	1.000	-

MARKING DIAGRAM



P/N = Specific Device Code
 G = Green Compound
 YWW = Date Code
 F = Factory Code