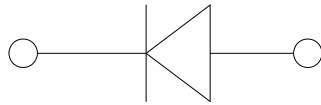


Fast Recovery Rectifier



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

Mechanical Data

- **Package:** DO-204AL(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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G
Device marking code			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 @60Hz sine wave, Resistance load, T _a =75°C	I _{F(AV)}	A	1.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	30				
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			60				
Current squared time @1ms≤t ₁ ≤8.3ms T _j =25°C, Rating of per diode	I ² t	A ² s	3.735				
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C _j	pF	10				
Storage Temperature	T _{stg}	°C	-55 ~ +150				
Junction Temperature	T _j	°C	-55 ~ +150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.0A	1.2				
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	2.5				
			T _j =125°C	100				
Maximum reverse recovery time	t _r	ns	I _f =0.5A, I _r =1.0A, I _r =0.25A	150				



1N4933G THRU 1N4937G

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	
Typical Thermal Resistance	R _{θJA}	°C/W	60					

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4933G~1N4937G	D1	Approximate 0.30	5000	5000	50000	Tape
1N4933G~1N4937G	C1	Approximate 0.30	1000	1000	50000	Bulk

■ Characteristics (Typical)

FIG.1: I_o-T_a Curve

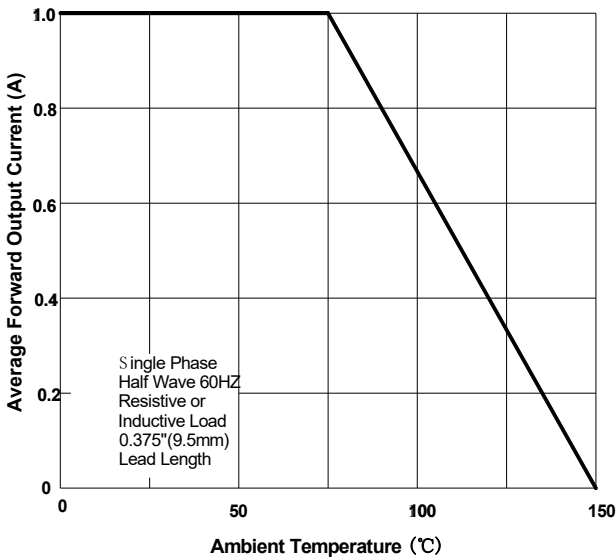


FIG.2: Forward Surge Current Capability

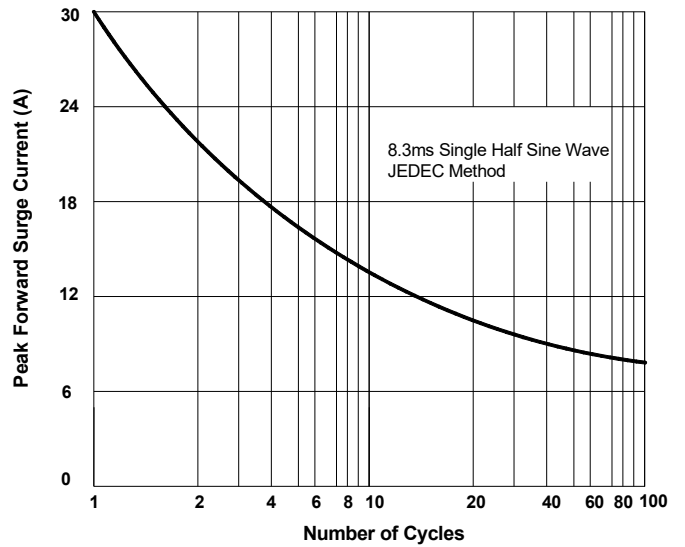


FIG.3: Forward Voltage

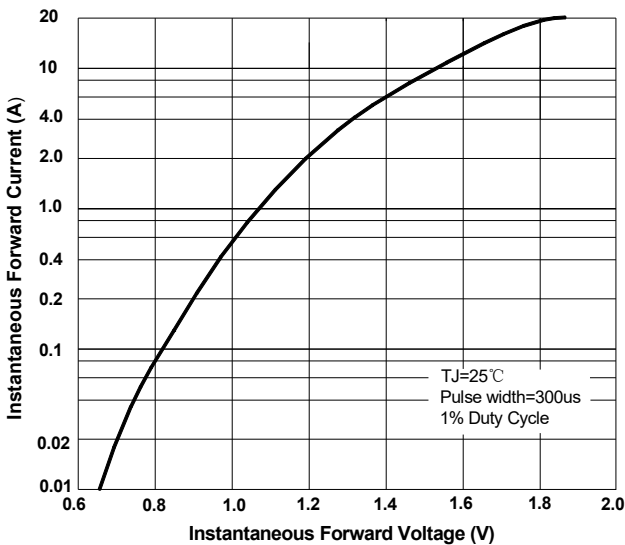
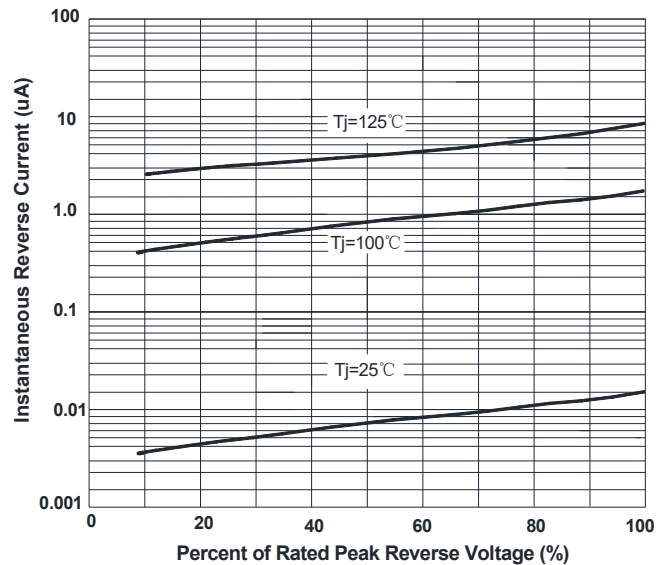


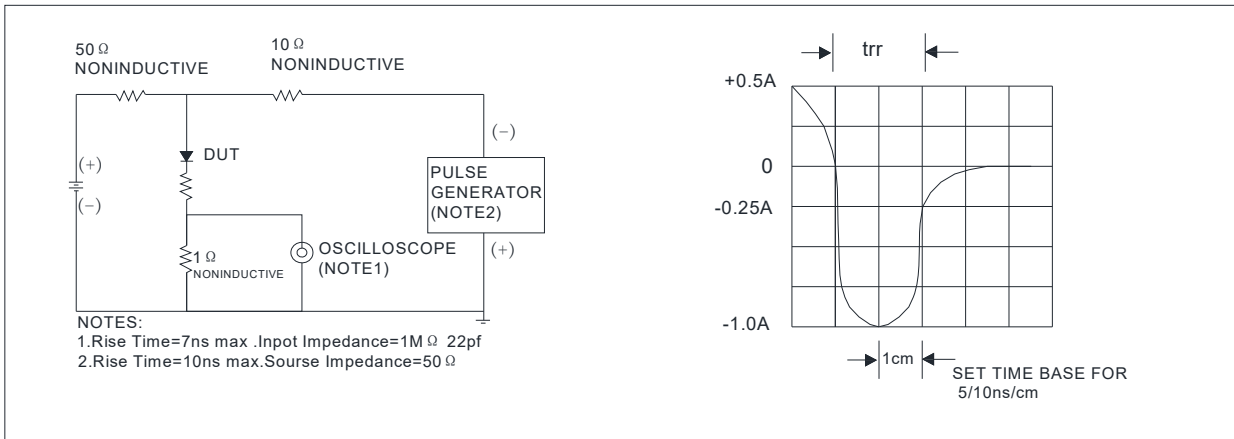
FIG.4: Typical Reverse Characteristics



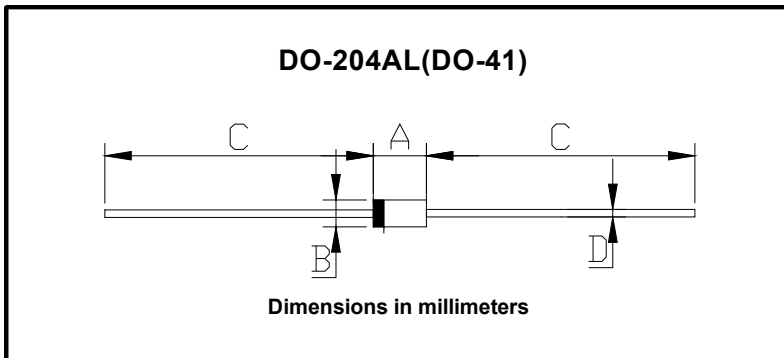


1N4933G THRU 1N4937G

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



■ Outline Dimensions



DO-204AL(DO-41)		
Dim	Min	Max
A	4.22	5.21
B	2.03	2.72
C	25.4	/
D	0.69	0.86



1N4933G THRU 1N4937G

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