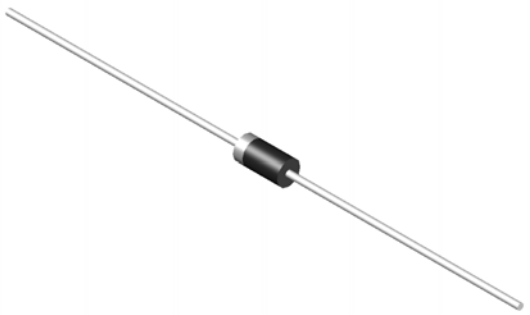
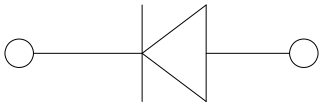
Fast Recovery Rectifier





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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N4933	1N4934	1N4935	1N4936	1N4937
Device marking code			1N4933	1N4934	1N4935	1N4936	1N4937
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600
Average Forward Current @60Hz sine wave, Resistance load, Ta=75℃	$I_{F(AV)}$	A	1.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	30				
Storage Temperature	Tstg	℃	-55 ~+150				
Junction Temperature	Tj	℃	-55~+150				

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N4933	1N4934	1N4935	1N4936	1N4937
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=1.0A	1.2				
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	Ta=25℃	2.5				
	I_{RRM2}		Ta=100℃	100				
Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A	150				
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	10				

■Thermal Characteristics （Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	1N4933	1N4934	1N4935	1N4936	1N4937
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	60				

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4933~1N4937	D1	Approximate 0.30	5000	5000	50000	Tape
1N4933~1N4937	C1	Approximate 0.30	1000	1000	50000	Bulk

■ Characteristics (Typical)

FIG.1: Io-Ta Curve

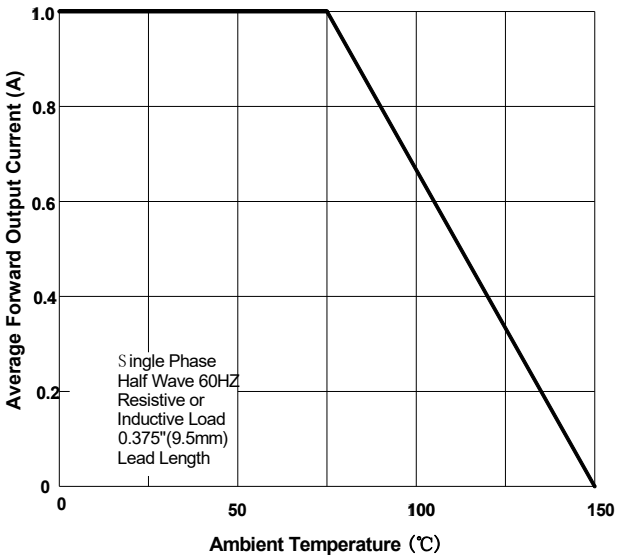


FIG.2: Forward Surge Current Capability

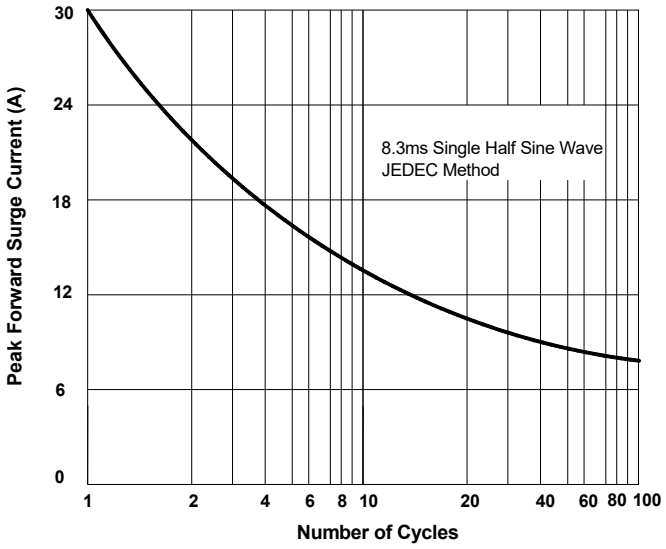


FIG.3: Forward Voltage

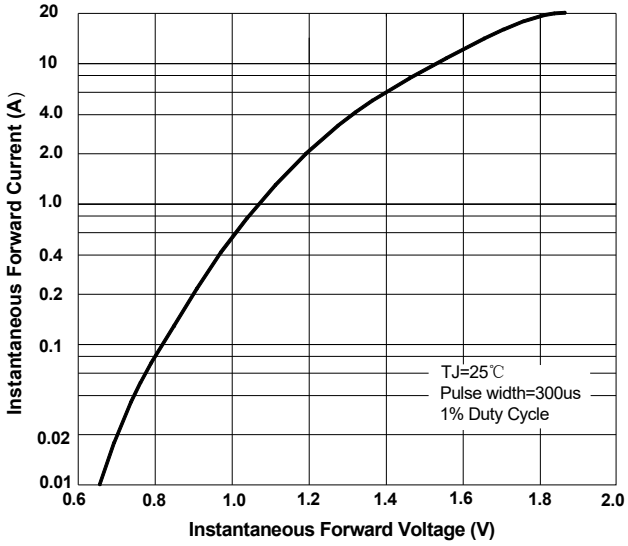


FIG.4: Typical Reverse Characteristics

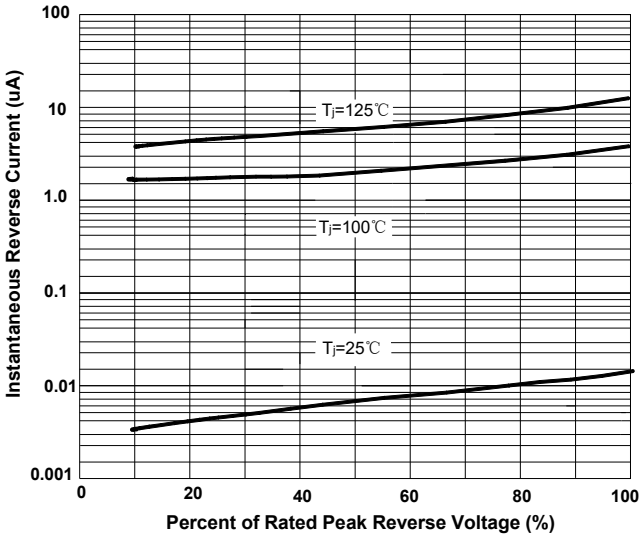
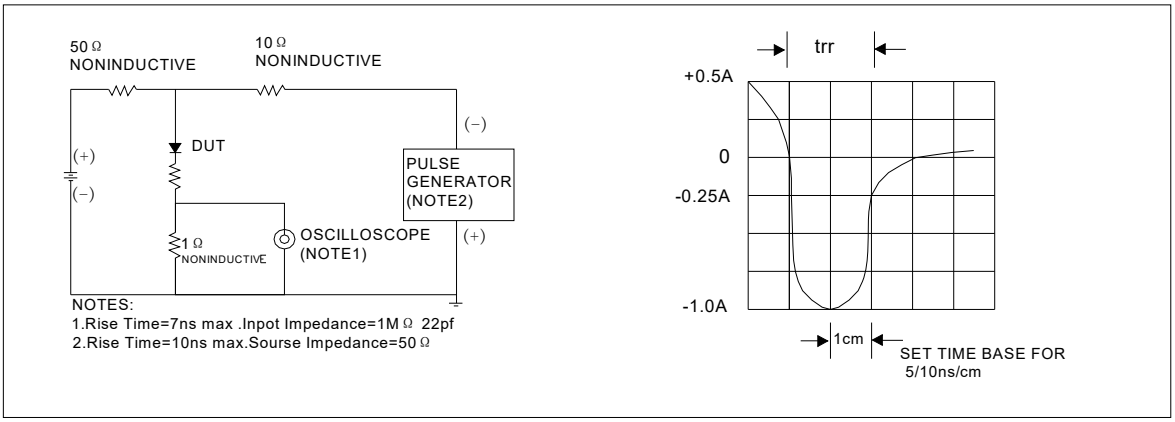
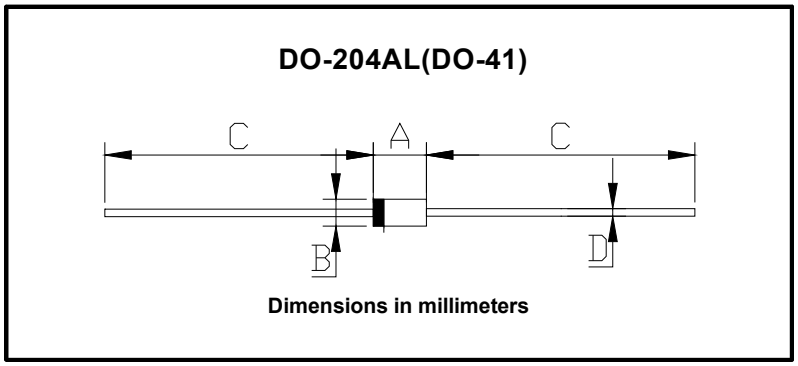


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ 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

Disclaimer

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