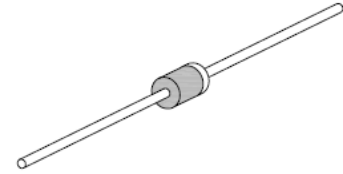


1.0A Fast Recovery Rectifier

Features

- Low forward voltage drop
- Low coat construction
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



DO-41



Mechanical Data

Case:	DO-41, molded plastic
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial lead, solderable per MIL-STD-202E, Method 208C
Polarity:	Color band denotes cathode end
Weight:	0.012 ounce, 0.34 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	1N4933	1N4934	1N4935	1N4936	1N4937	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	V	
IAV	Maximum Average Forward Rectified Current	1.0					A	0.375" (9.5mm) Lead Length, $T_A=75^\circ\text{C}$
IFSM	Peak Forward Surge Current	30					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Maximum Instantaneous Forward Voltage	1.2					V	IF=1.0A

1.0A Fast Recovery Rectifier

1N4933 - 1N4937

Symbol	Description	1N4933	1N4934	1N4935	1N4936	1N4937	Unit	Conditions
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0					μA	TA=25° C
		100						TA=100° C
T_{rr}	Maximum Reverse Recovery Time	200					nS	IF=1.0A, VR=30V, di/dt=50A/μS, Irr=10%Irm, Tj=25 °C
I_{RM(REC)}	Maximum Reverse Recovery Current	2.0					A	IF=1.0A, VR=30V, di/dt=50A/μS, Irr=10%Irm
C_J	Typical Junction Capacitance	15					pF	VR=4V, f=1MHz
R_{thJA}	Typical Thermal Resistance	50					°C / W	Note
T_J	Operating Temperature range	-55 to +150					°C	
T_{STG}	Storage Temperature Range	-55 to +150					°C	

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

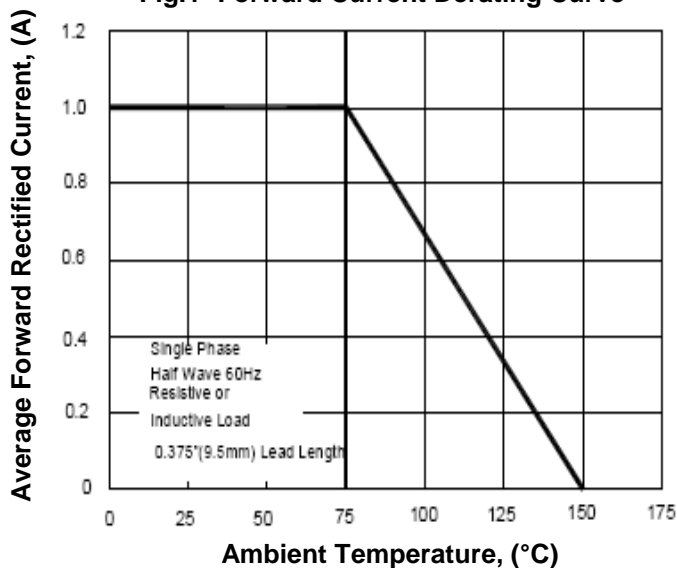
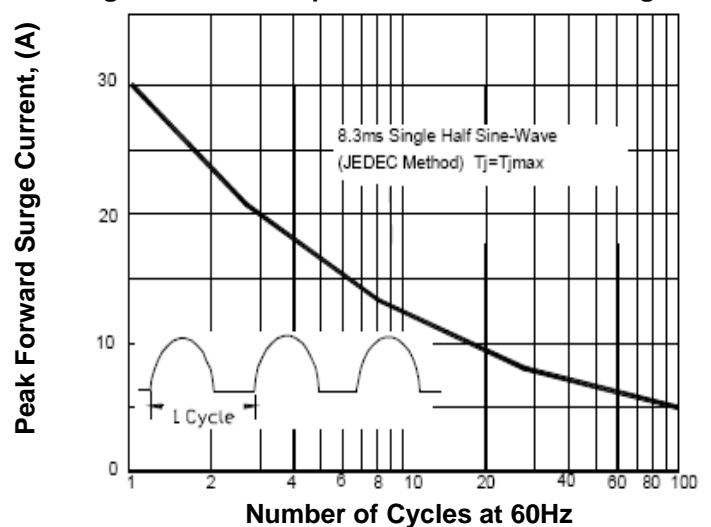


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



1.0A Fast Recovery Rectifier

1N4933 - 1N4937

Fig.3-Typical Instantaneous Forward Characteristics

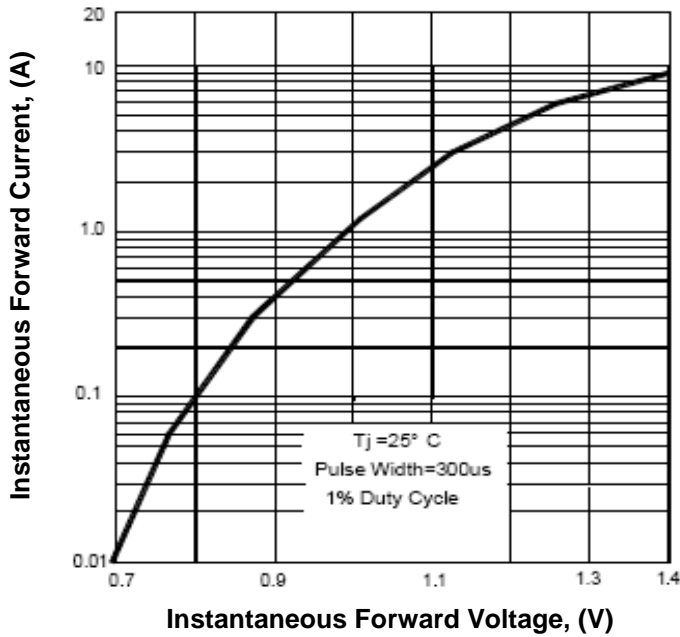


Fig.4-Typical Reverse Characteristics

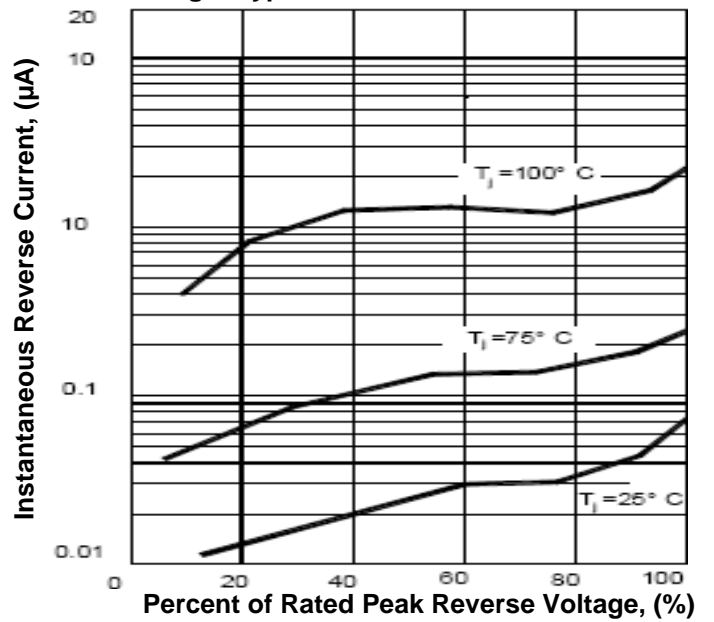
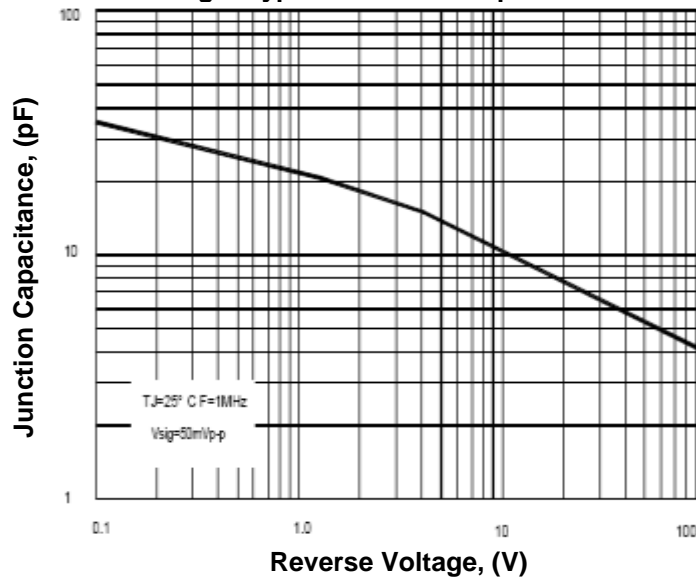


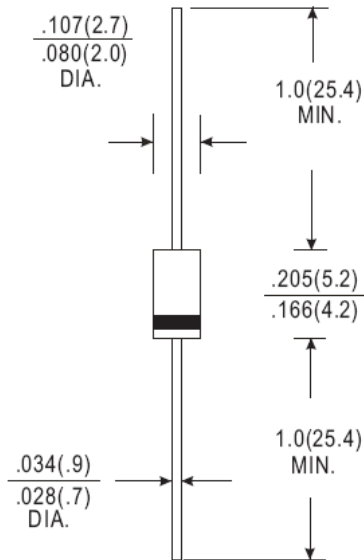
Fig.5-Typical Junction Capacitance



1.0A Fast Recovery Rectifier

1N4933 - 1N4937

Dimensions in inches (mm)



DO-41

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