



Fast Recovery Rectifiers

Reverse Voltage 50 to 600 Volts Forward Current 1.0 Ampere

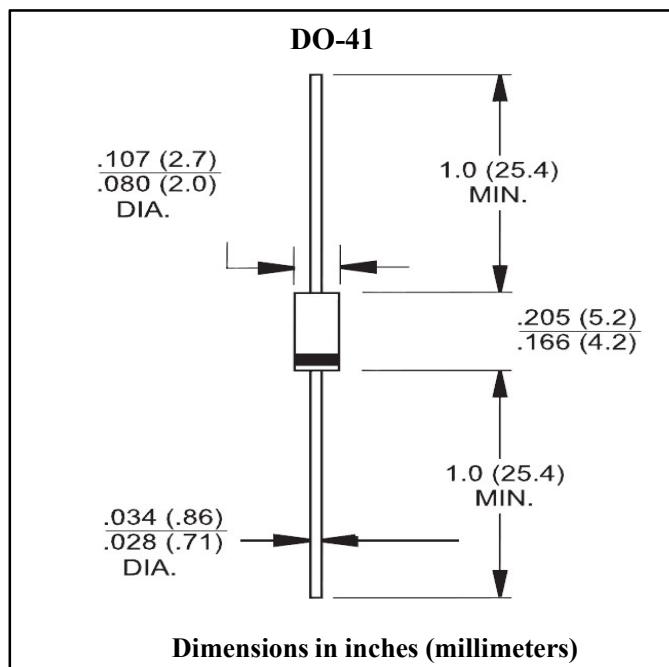
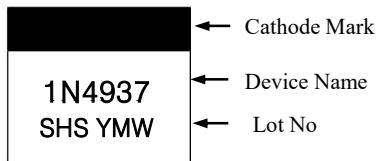
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,
Method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed
: 260°C/10 seconds/0.375",(9.5mm)
lead lengths at 5 lbs.,(2.3kg) tension
- Weight : 0.34 gram

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 HZ, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	1N4933	1N4934	1N4935	1N4936	1N4937	Unit	Remark
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 0.375"(9.5mm) Lead Length	I _(AV)			1.0			A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}			30			A	
Maximum Instantaneous Forward Voltage	V _F			1.2			V	I _F =1.0A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R			5.0			uA	T _a =25°C
				50				T _a =100°C
Maximum Reverse Recovery Time	trr			200			ns	Note 1
Typical Junction Capacitance	C _J			15.0			pF	Note 2
Operation Junction Temperature Range	T _J			-50 to +150			°C	
Storage Temperature Range	T _{STG}			-50 to +150			°C	

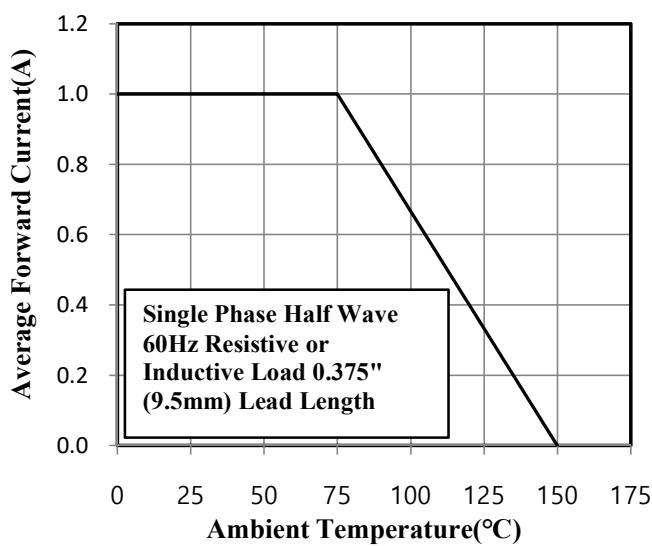
Note 1. Reverse Recovery Time Test Conditions : I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve



**Fig.3 Typical Instantaneous Forward
Characteristics**

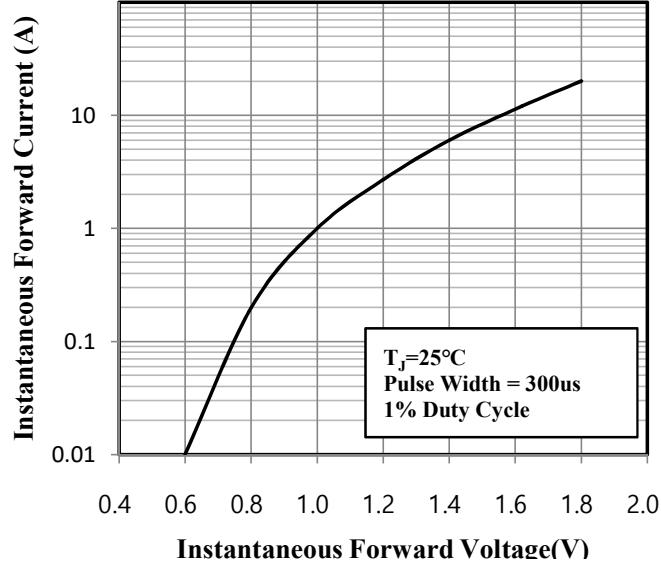
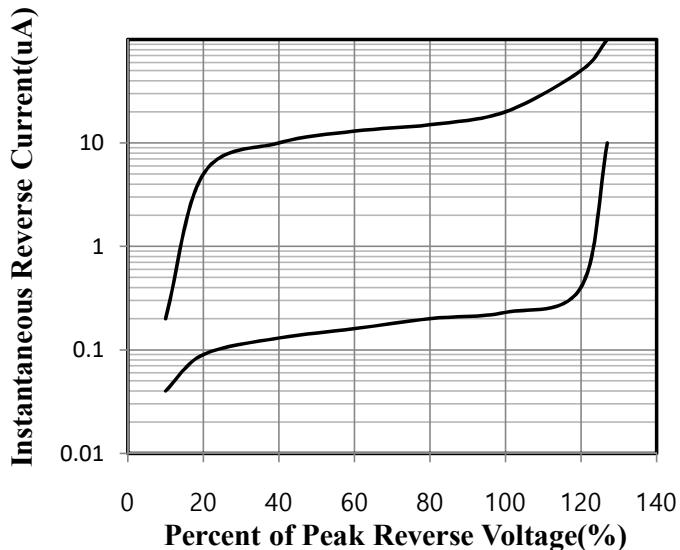


Fig.5 Typical Reverse Characteristics



**Fig.2 Maximum Non-Repetitive Peak
Forward Surge Current**

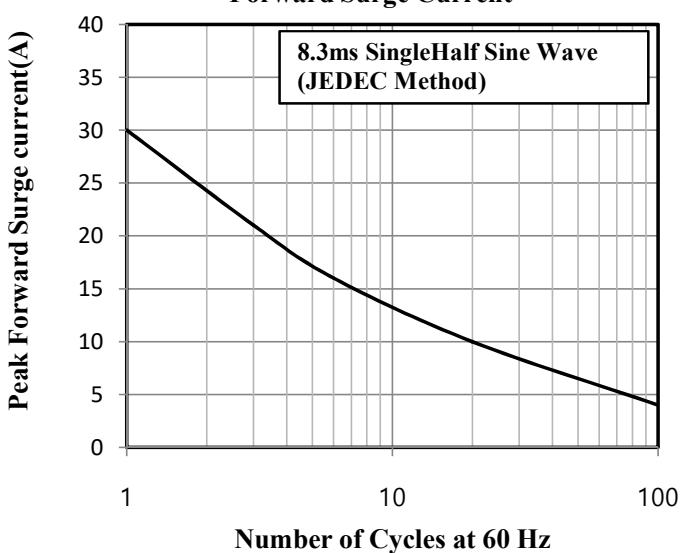
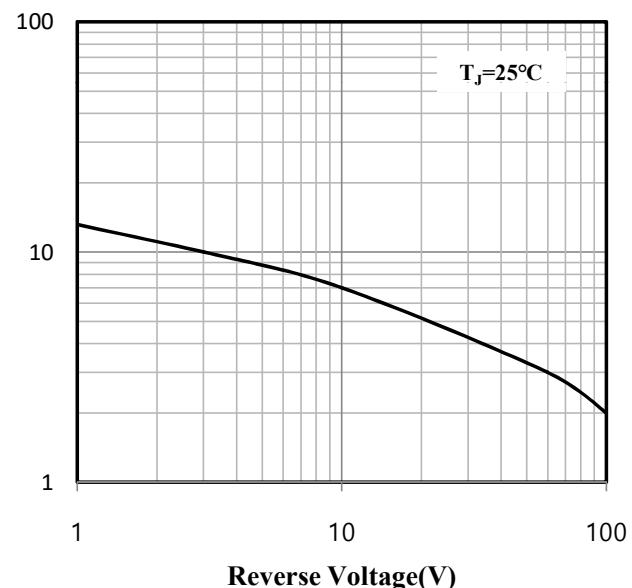


Fig.4 Typical Junction Capacitance



**Fig.6 Reverse Recovery Time Characteristic
and Test Circuit Diagram**

