

**Glass Passivated Fast Recovery Rectifiers**  
**Reverse Voltage 50 to 600 Volts Forward Current 1.0 Ampere**

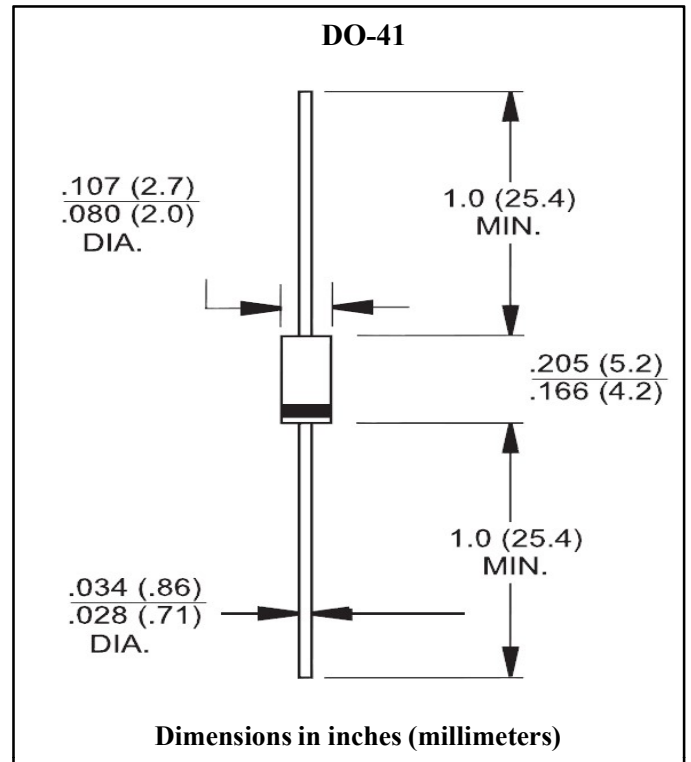
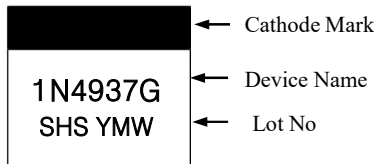
**Features**

- 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%

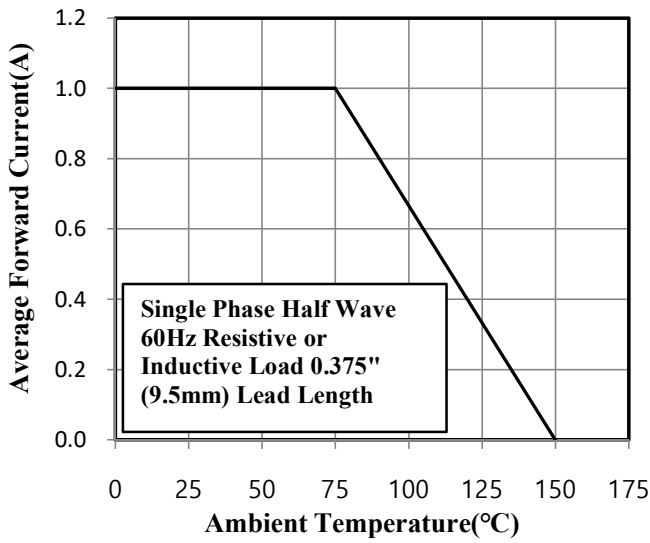
Parameter	Symbol	1N 4933G	1N 4934G	1N 4935G	1N 4936G	1N 4937G	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	V	
Maximum Average Forward Rectified Current 0.375"(9.5mm) 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	Ta=25°C
		50						Ta=100°C
Maximum Reverse Recovery Time	$t_{rr}$	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 :  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$

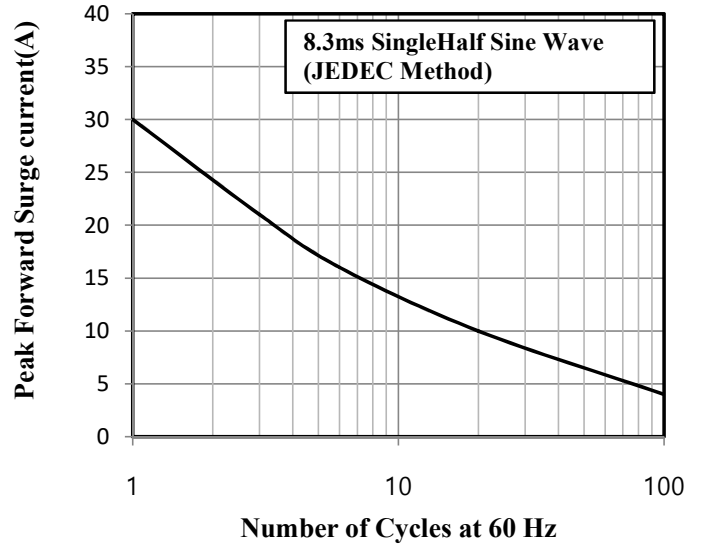
Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

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

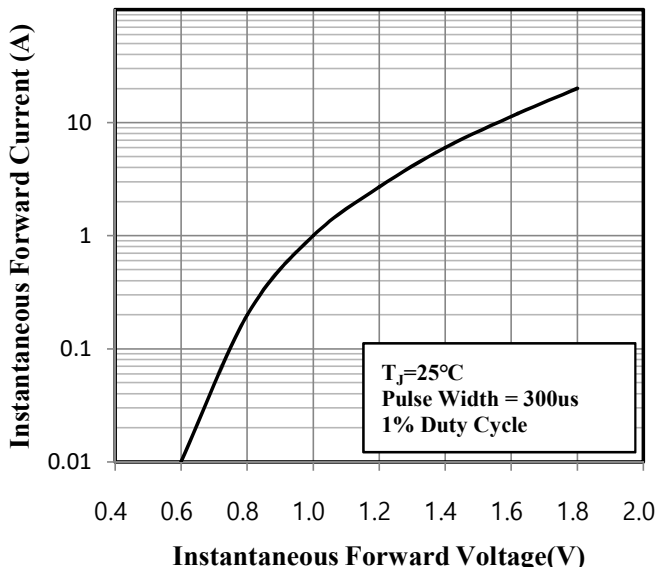
**Fig.1 Forward Current Derating Curve**



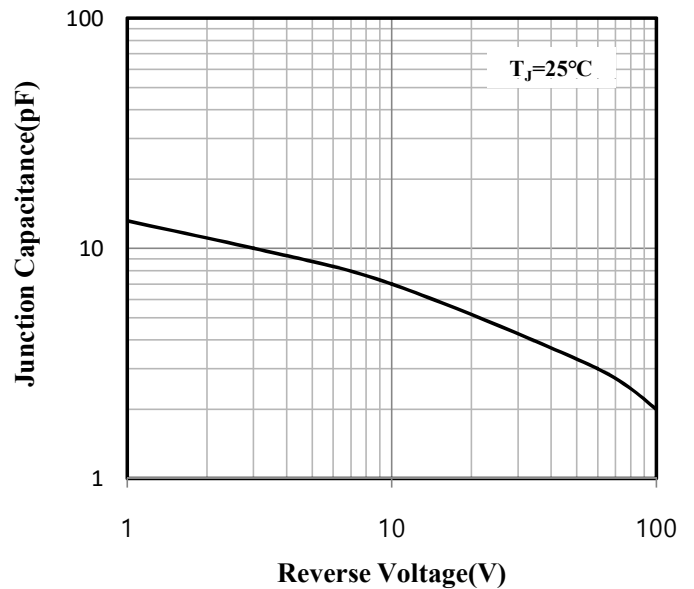
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



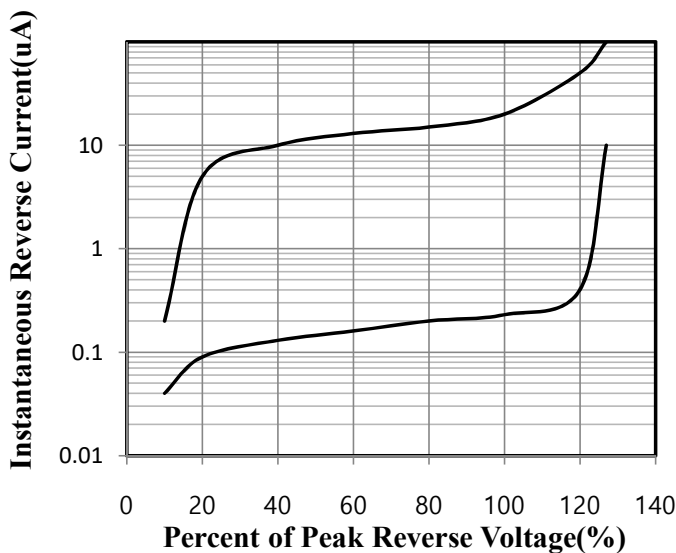
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**



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

