LITE-ON SEMICONDUCTOR

1N4933G thru 1N4937G

FAST RECOVERY
GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - **50** to **600** Volts
FORWARD CURRENT - **1.0** Ampere

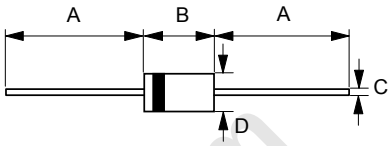
FEATURES

- Fast switching for high efficiency
- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



Dim.	DO-41 Min.	DO-41 Max.
A	25.4	-
B	4.10	5.20
C	0.71 ∅	0.86 ∅
D	2.00 ∅	2.70 ∅
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	UNIT
Maximum Recurrent 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}	60	100	200	400	600	V
Maximum Average Forward Rectified Current @T_A=75℃	$I_{(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum forward Voltage at 1.0A DC	V_F	1.3					V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=100℃	I_R	5 50					uA uA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	200					ns
Maximum Reverse Recovery Time (Note 2)	T_{RR}	130					ns
Typical Junction Capacitance (Note 3)	C_J	15					pF
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	50					℃/W
Operating Temperature Range	T_J	-55 to +150					℃
Storage Temperature Range	T_{STG}	-55 to +150					℃

NOTES : 1.Measured with I_F=1.0A,V_R=30V,di/dt=50A/us.
2.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A.
3.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
4.Thermal Resistance Junction to Ambient.

REV. 3, Oct-2010, KDEC01

FIG.1 - FORWARD CURRENT DERATING CURVE

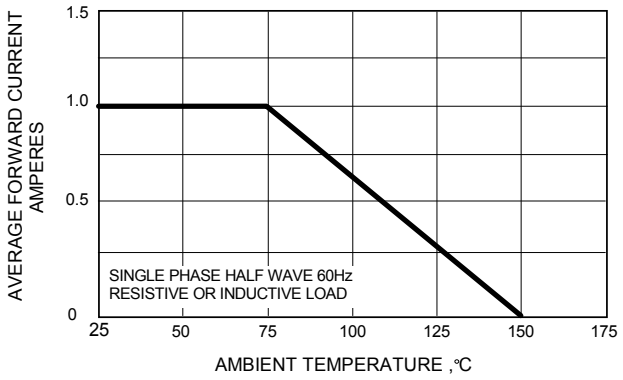


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

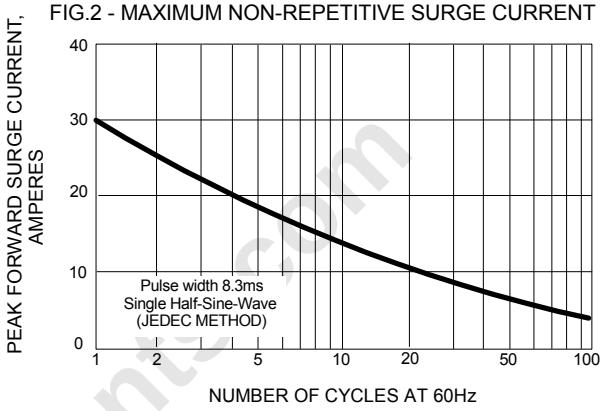


FIG.3 - TYPICAL JUNCTION CAPACITANCE

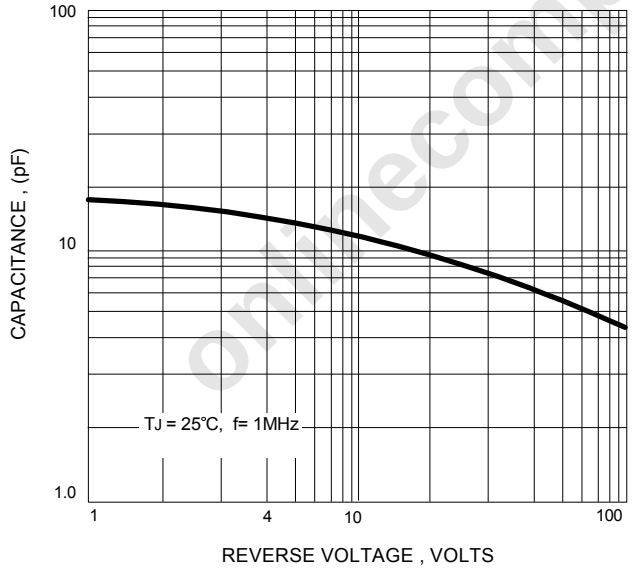
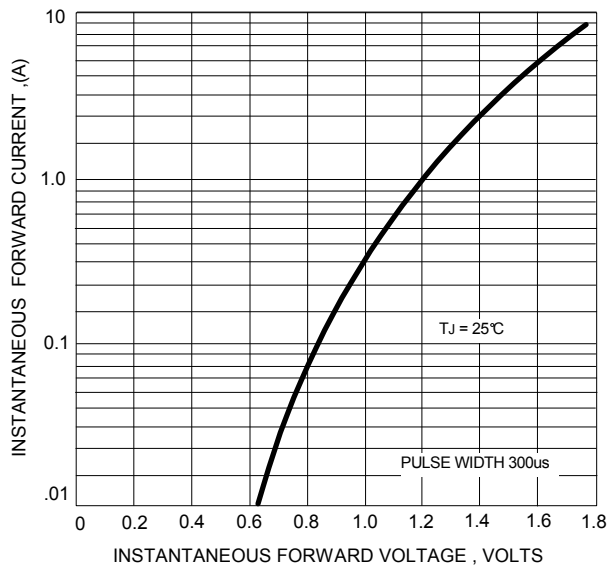


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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