

1N4933G THRU 1N4937G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

FEATURES:

- High temperature bonded construction
- Fast switching for use in high frequency circuit
- No thermal runaway at 1.0 Amp. Current $T_a=75^{\circ}\text{C}$
- High temperature soldering guaranteed : $250^{\circ}\text{C}/10$ seconds,
0.375" lead length, 5lbs.(2.3kg) tension

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

Terminals : Axial leads, solderable per MIL-STD-202, Method 208

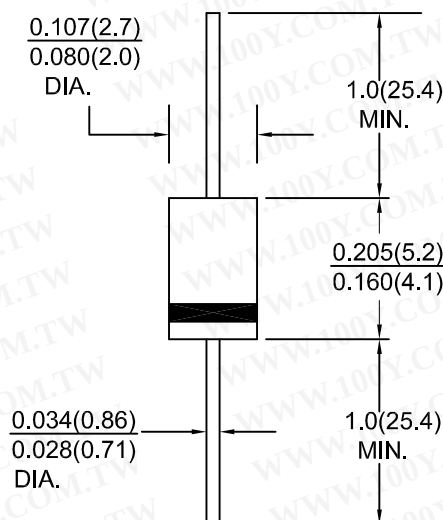
Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.33 grams, 0.012 ounce

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

DO-204AL(DO-41)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current .375 lead length at $T_a=75^{\circ}\text{C}$	I_O	1.0					Amps
Peak forward surge current .8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	30.0					Amps
Maximum instantaneous forward voltage drop at 1.0 A	V_F	1.2					Volts
Maximum DC reverse current $T_a=25^{\circ}\text{C}$ at rated DC blocking voltage $T_a=125^{\circ}\text{C}$	I_R	5.0 100.0					μA
Typical reverse recovery time (note 1)	t_{rr}	200					nS
Typical thermal resistance	R_{th-JA}	10					$^{\circ}\text{C/W}$
Typical junction capacitance (note 2)	C_j	15.0					pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150					$^{\circ}\text{C}$

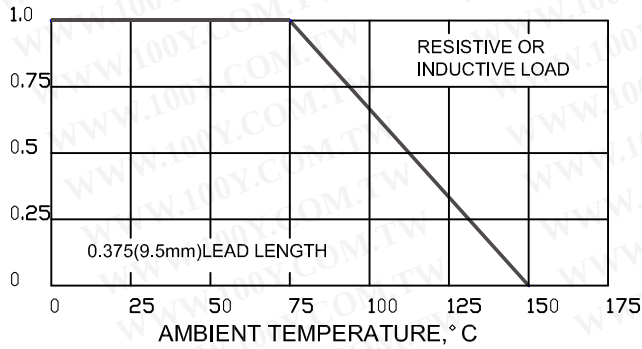
NOTES:1. Reverse recovery test condition; $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RN}=0.25\text{A}$

2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC

RATINGS AND CHARACTERISTIC CURVES 1N4933G THRU 1N4937G

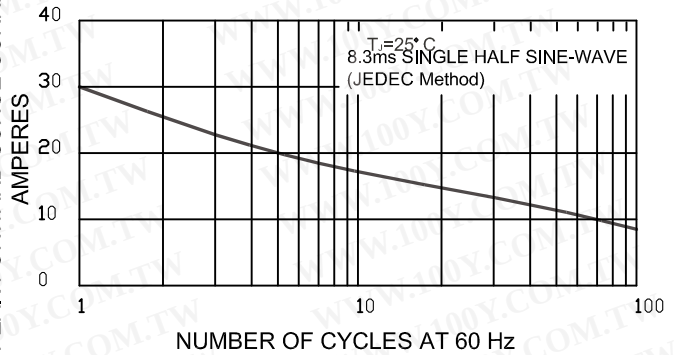
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT



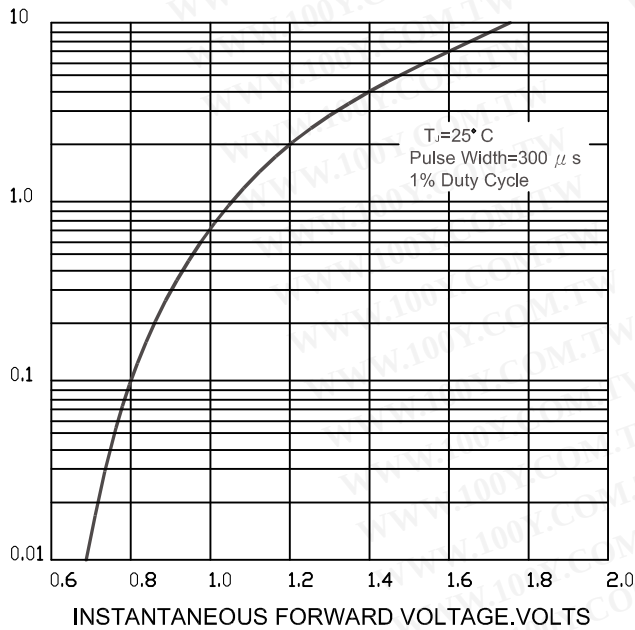
PEAK FORWARD SURGE CURRENT, AMPERES

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



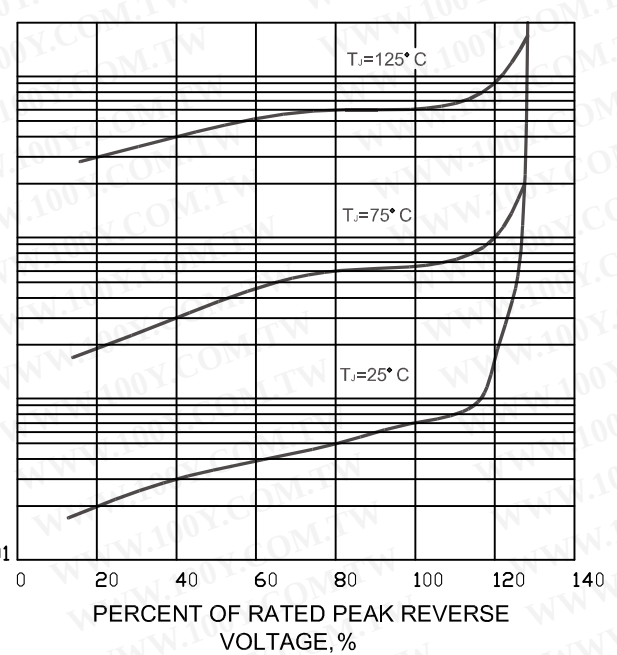
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



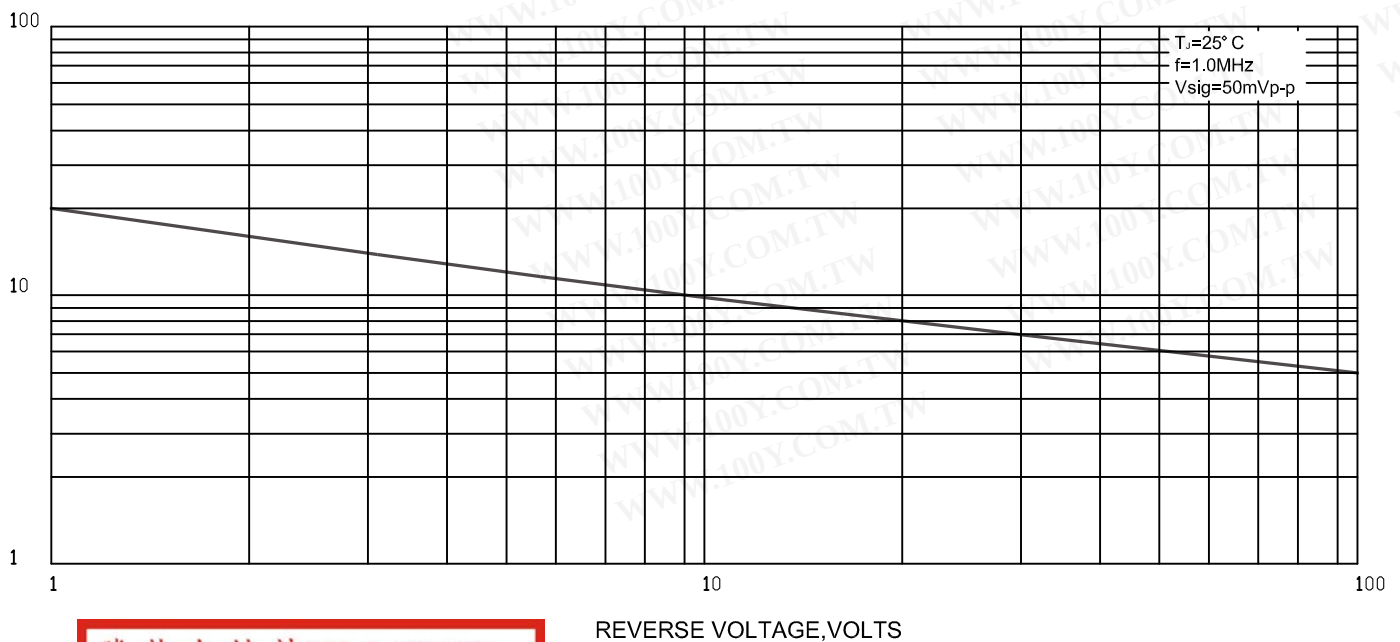
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG.4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG.5-TYPICAL JUNCTION CAPACITANCE



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REVERSE VOLTAGE, VOLTS