

1N4933**THRU****1N4937****FAST RECOVERY SILICON RECTIFIERS****FEATURES:**

- Low cost
- High surge current capability
- Low leakage current
- Diffused junction

勝特力材料 886-3-5753170
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MECHANICAL DATA

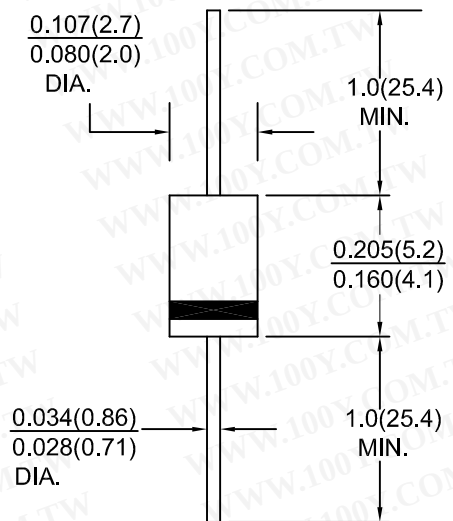
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

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

Polarity : Color band on body denotes cathode

Mounting Position : Any

Weight : 0.33 grams

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	1N4933	1N4934	1N4935	1N4936	1N4937	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 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	1.20					Volts
Maximum DC reverse current $T_a=25^\circ\text{C}$ at rated DC blocking voltage $T_a=55^\circ\text{C}$	I_R	5.0 30.0					μA
Typical reverse recovery time (note 1)	t_{rr}	150					nS
Typical junction capacitance (note 2)	C_j	15					pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +125			-65 to +150		$^\circ\text{C}$

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

2. Measured at 1MHz and Applied reverse voltage of 4.0V_{DC}

RATINGS AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

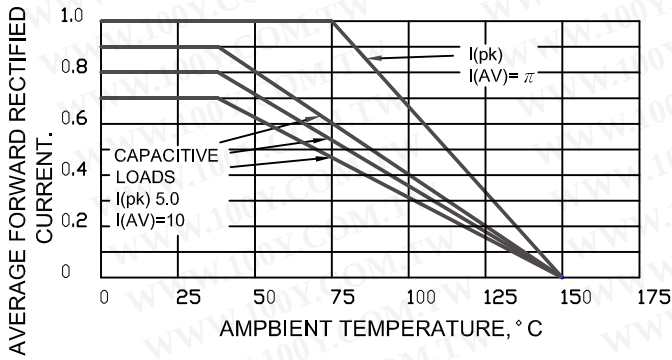


FIG.2-PEAK FORWARD SURGE CURRENT

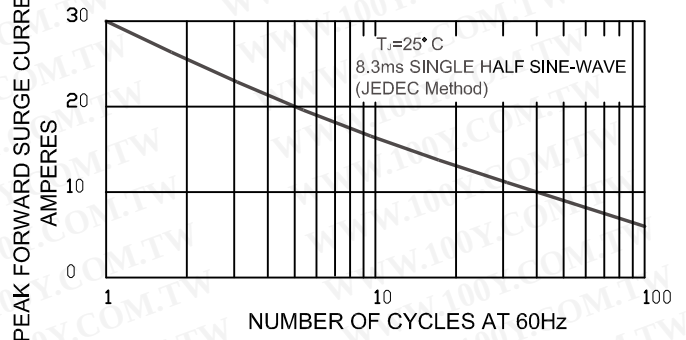


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

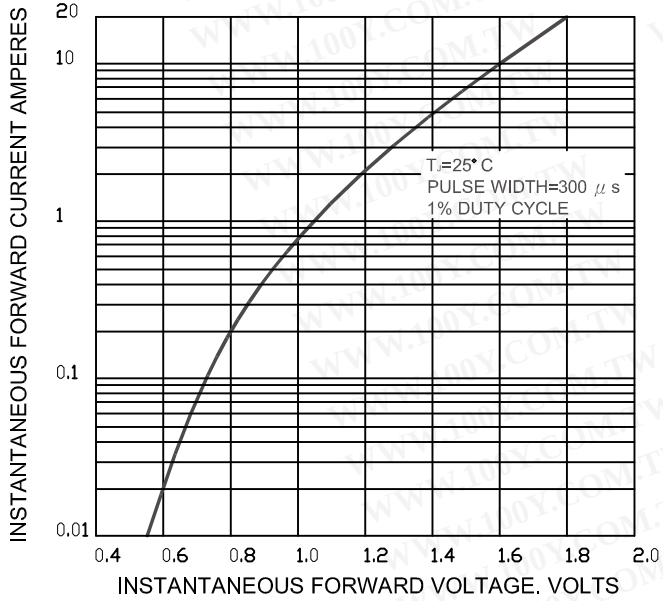


FIG.4- REVERSE CHARACTERISTICS

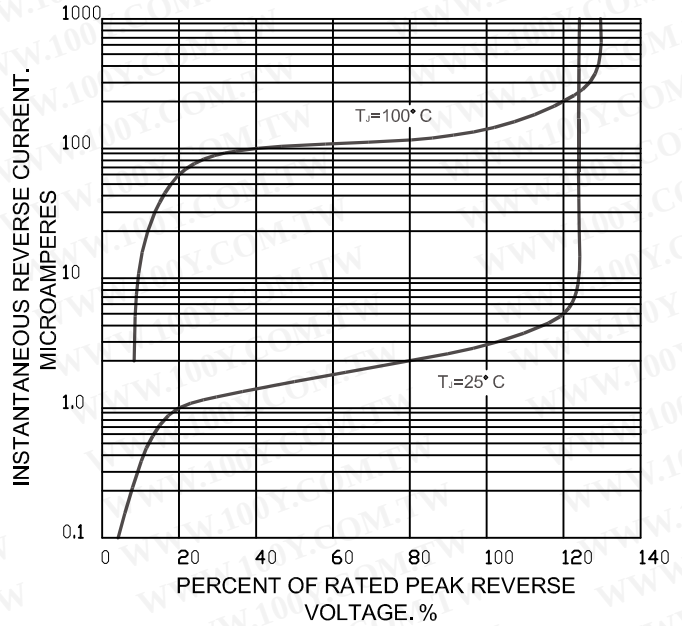


FIG.5-TYPICAL JUNCTION CAPACITANCE

