

FR101G THRU FR107G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

FEATURES:

- High temperature bonded construction
- Fast switching for use in high frequency circuit
- No thermal runaway at 1 Amp. Current $T_a=55^{\circ}\text{C}$
- High temperature soldering guaranteed : 250°C /10 seconds, 0.375" lead length, 5lbs.(2.3kg) tension

MECHANICAL DATA

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

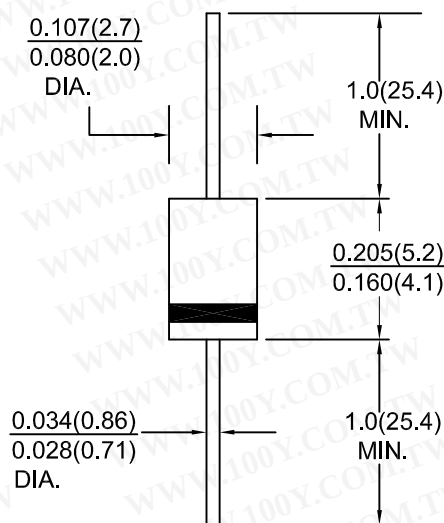
Terminals : Axial leads, solderable per MIL-STD-202, Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.33 grams, 0.012 ounce

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 %.

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

Characteristic	Symbol	FR 101G	FR 102G	FR 103G	FR 104G	FR 105G	FR 106G	FR 107G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375 lead length at $T_a=55^{\circ}\text{C}$	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	1.3							Volts
Maximum DC reverse current at rated DC blocking voltage $T_a=25^{\circ}\text{C}$ $T_a=150^{\circ}\text{C}$	I_R	5.0 200.0							μA
Typical reverse recovery time (note 1)	t_{rr}	150	150	150	150	250	250	500	nS
Typical thermal resistance	R_{th-JA}	55							$^{\circ}\text{C/W}$
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; $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

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

RATINGS AND CHARACTERISTIC CURVES FR101G THRU FR107G

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

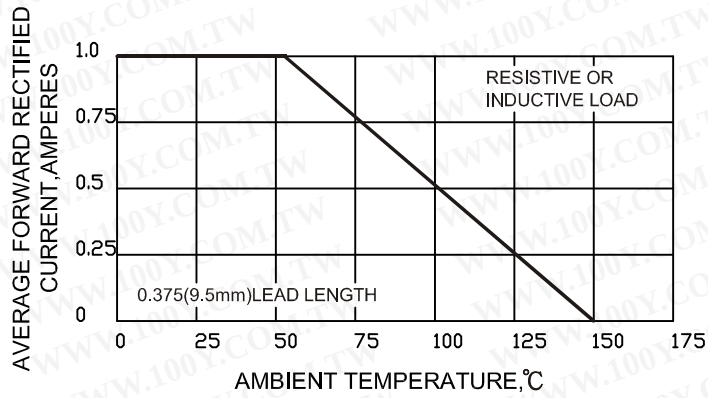


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

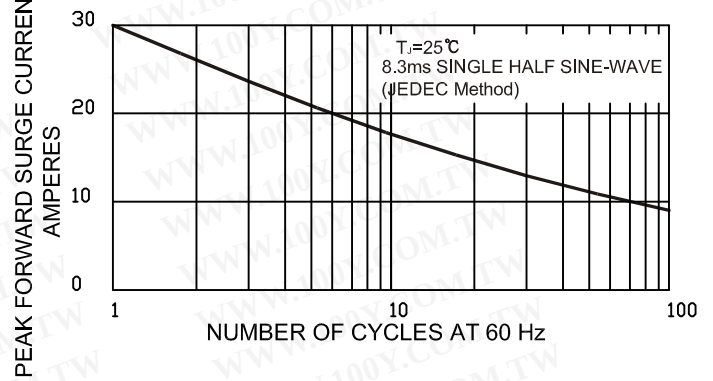


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

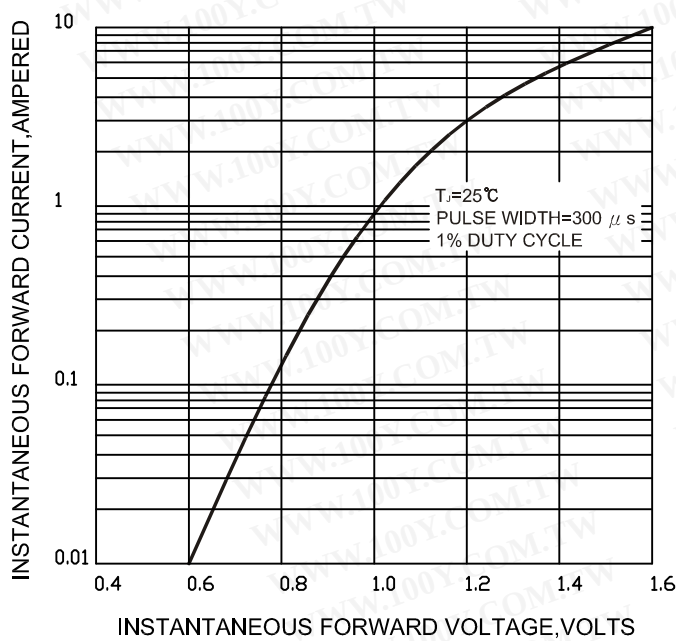


FIG.4-TYPICAL REVERSE CHARACTERISTICS

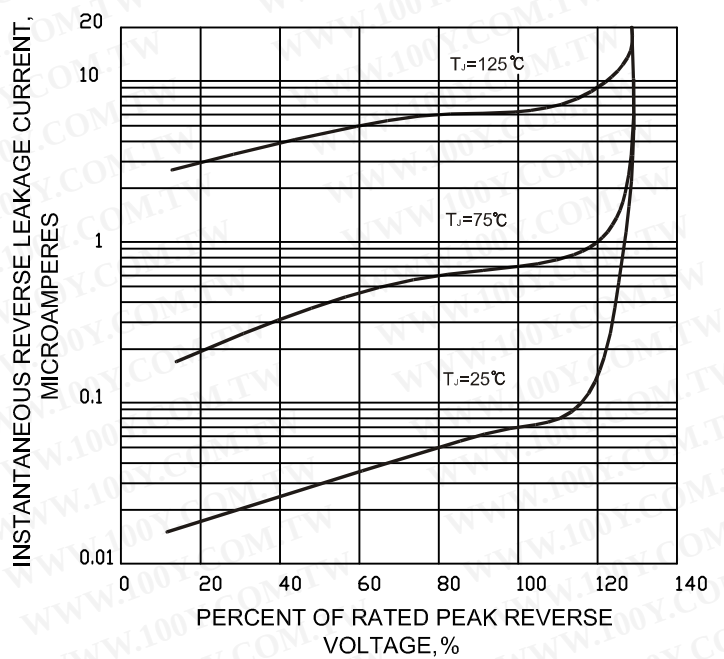
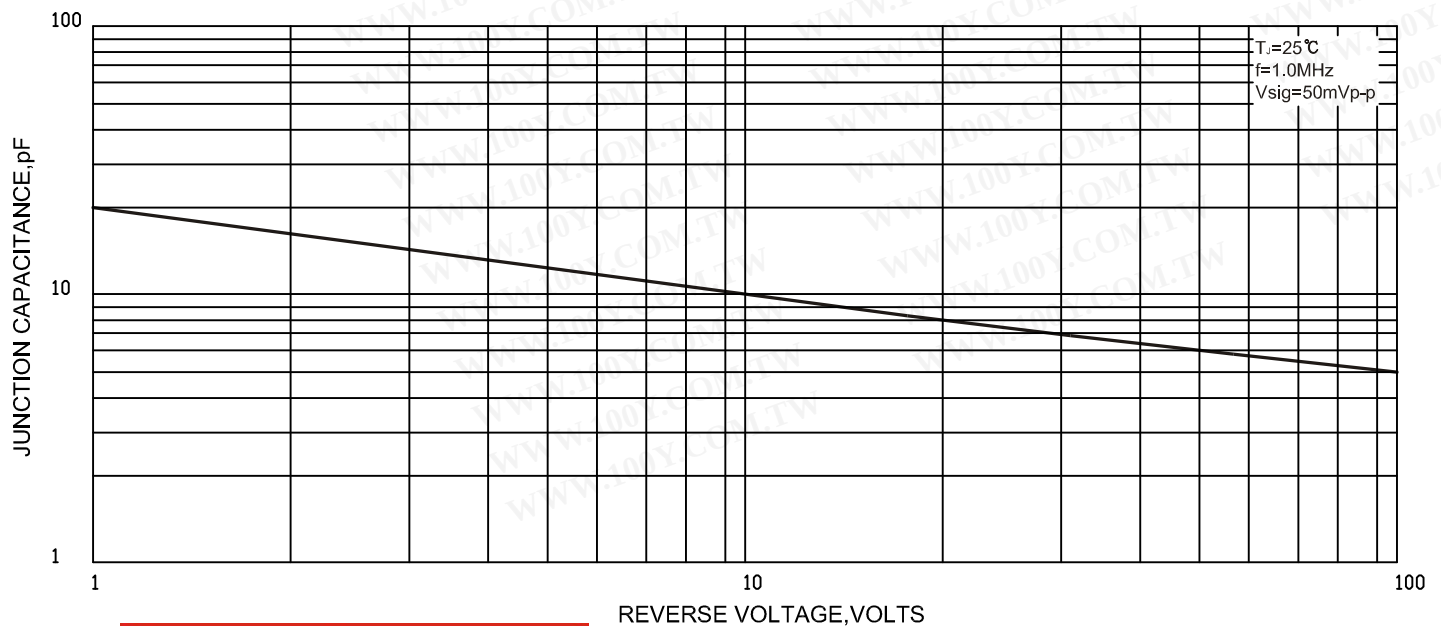


FIG.5-TYPICAL JUNCTION CAPACITANCE



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