

GR201G THRU GR207G

GLASS PASSIVATED RECTIFIERS

FEATURES:

- High temperature bonded construction
- High surge current capability
- No thermal runaway at 1 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 guaranteed

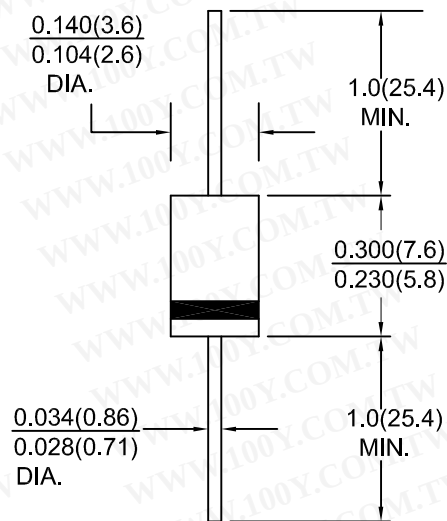
Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.4 grams, 0.015 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-204AC(DO-15)



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	GR 201G	GR 202G	GR 203G	GR 204G	GR 205G	GR 206G	GR 207G	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375" lead length at Ta=75° C	IO	2.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	65.0							Amps
Maximum instantaneous forward drop voltage at 2.0 A	VF	1.1		1.0					Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=150° C	IR	5.0 100.0							μ A
Maximum full load reverse current, full cycle average 0.375" lead length at Ta=55° C	IR(AV)	100.0							μ A
Typical thermal resistance	Rth-JA Rth-JL	25.5 10.0							° C/W
Typical junction capacitance	Cj	40.0							pF
Operating junction and storage temperature range	Tj, Tstg	-65 to +150							° C

RATINGS AND CHARACTERISTIC CURVES GR201G THRU GR207G

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

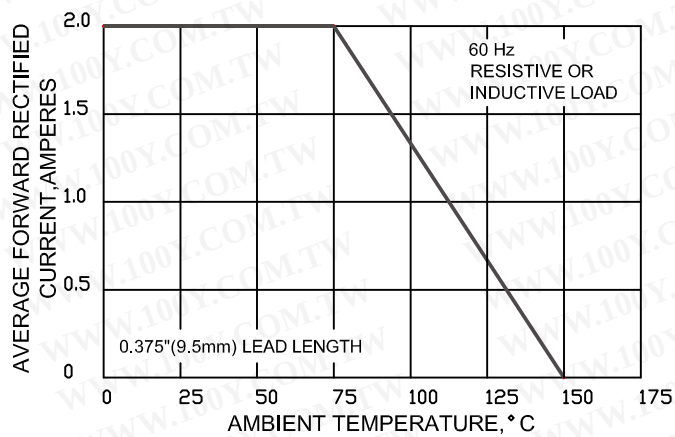


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

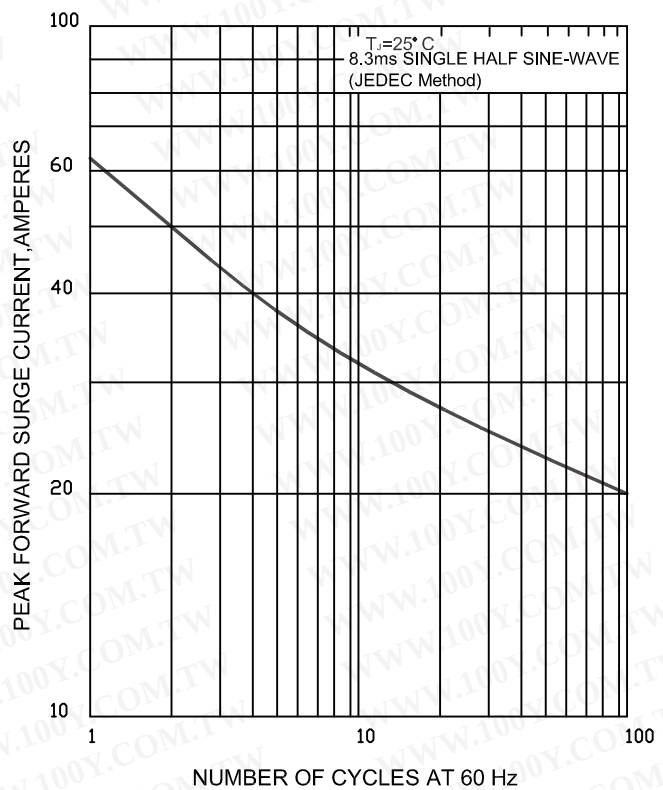


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

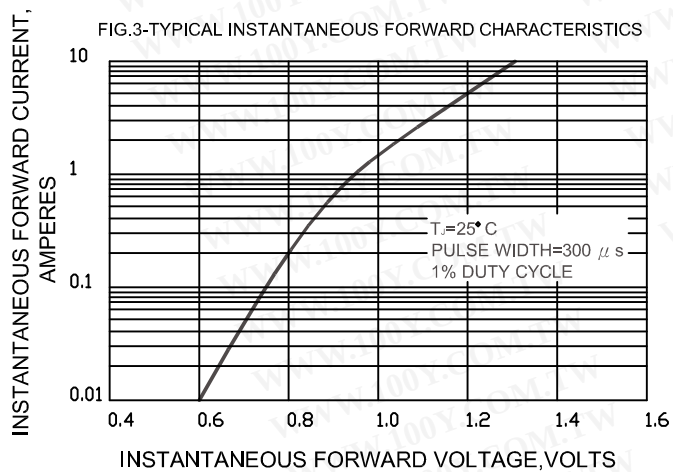


FIG.4-TYPICAL REVERSE CHARACTERISTICS

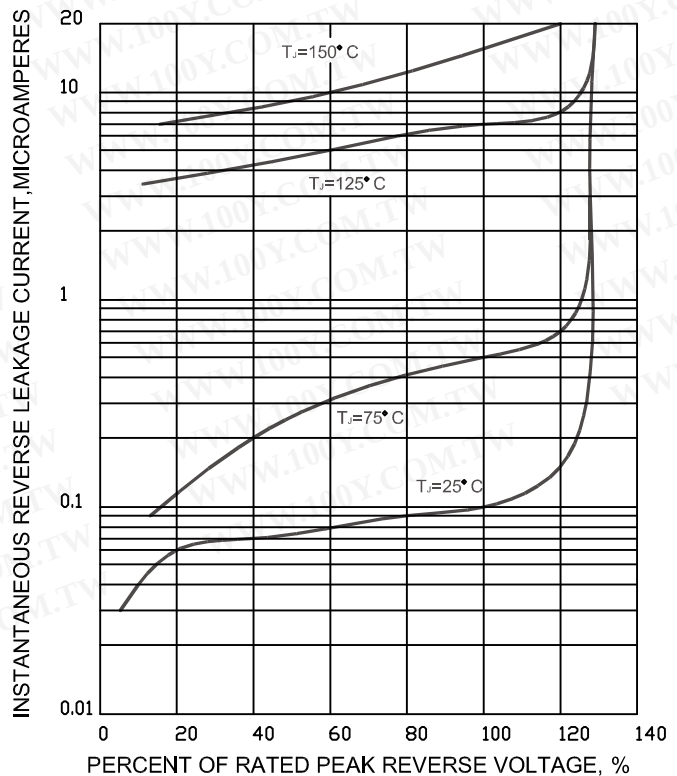


FIG.5-TYPICAL JUNCTION CAPACITANCE

