

6A05 THRU 6A10

SILICON RECTIFIERS

FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

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)

MECHANICAL DATA

Case : Molded plastic

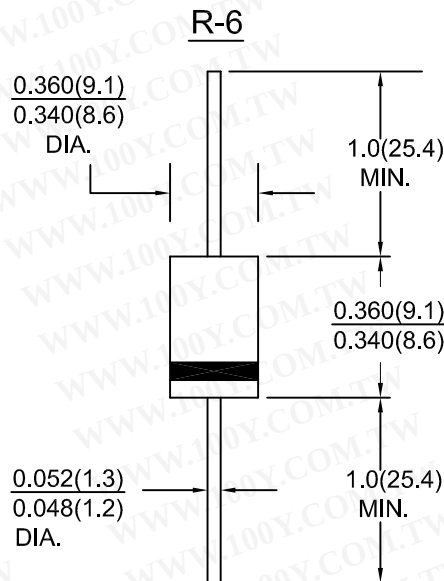
Epoxy : UL 94V-0 rate flame retardant

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

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.65 grams



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	6A05	6A1	6A2	6A4	6A6	6A8	6A10	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"(9.5mm) lead length at Ta=60 °C	IO	6.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	300							Amps
Maximum instantaneous forward voltage at 6.0 A	VF	0.95							Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25 °C Ta=100 °C	IR	10.0 400							μ A
Typical junction capacitance (note 1)	Cj	100							pF
Typical thermal resistance Rth-JA (note 2)	Rth-JA	10							°C/W
Operating junction temperature	Tj	-65 to +125							°C
Storage temperature range	Tstg	-65 to +150							°C

NOTES: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance from junction to ambient .375"(9.5mm) lead length

RATINGS AND CHARACTERISTIC CURVES 6A05 THRU 6A10

FIG.1-TYPICAL FORWARD CHARACTERISTICS

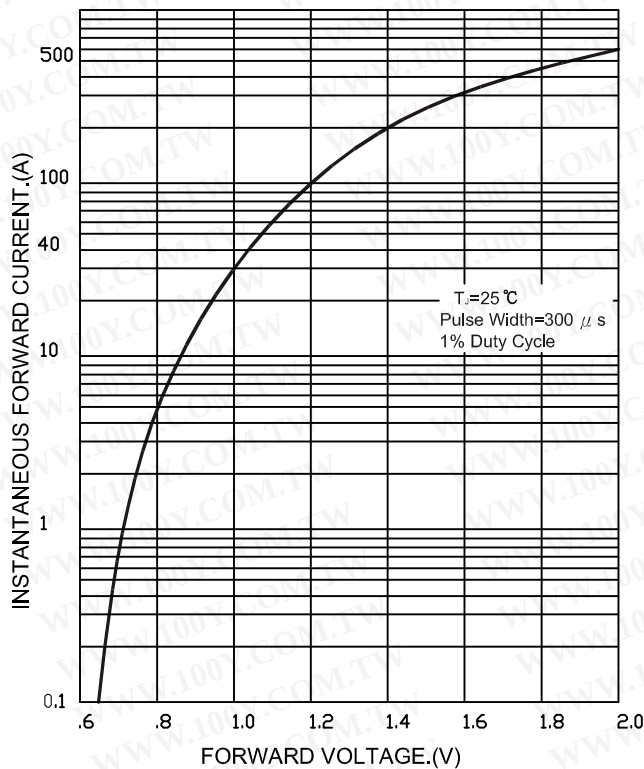


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

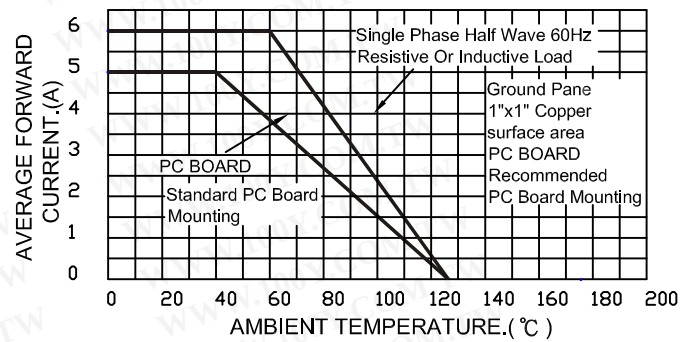


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

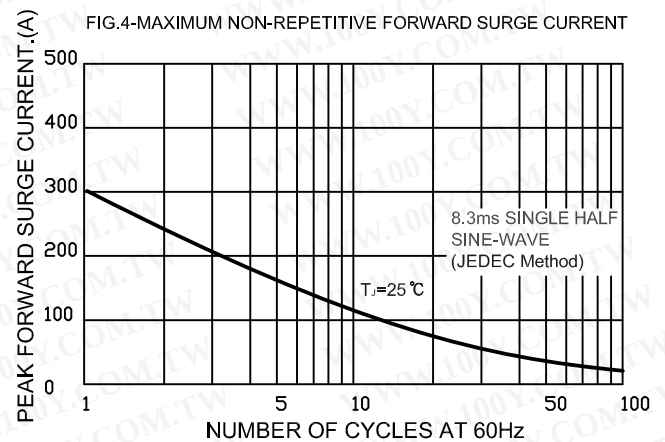


FIG.3-TYPICAL REVERSE CHARACTERISTICS

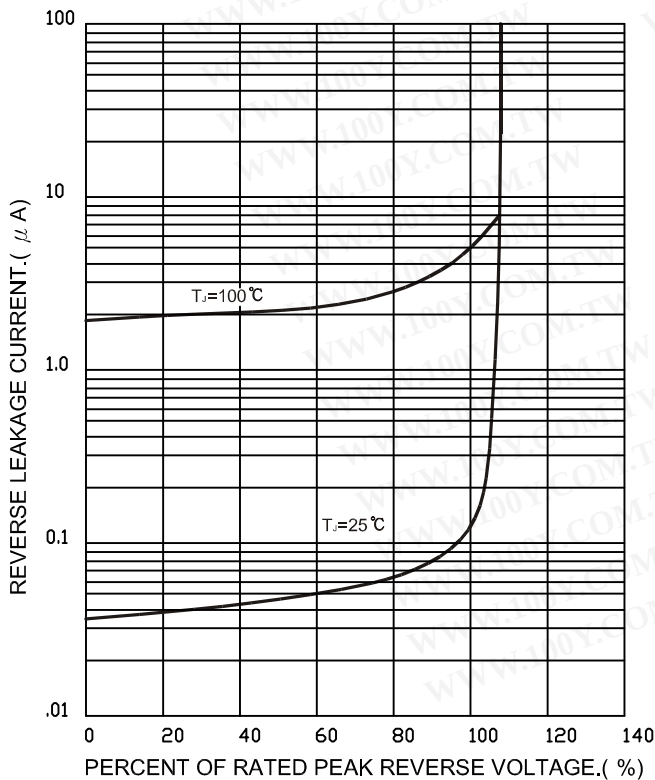
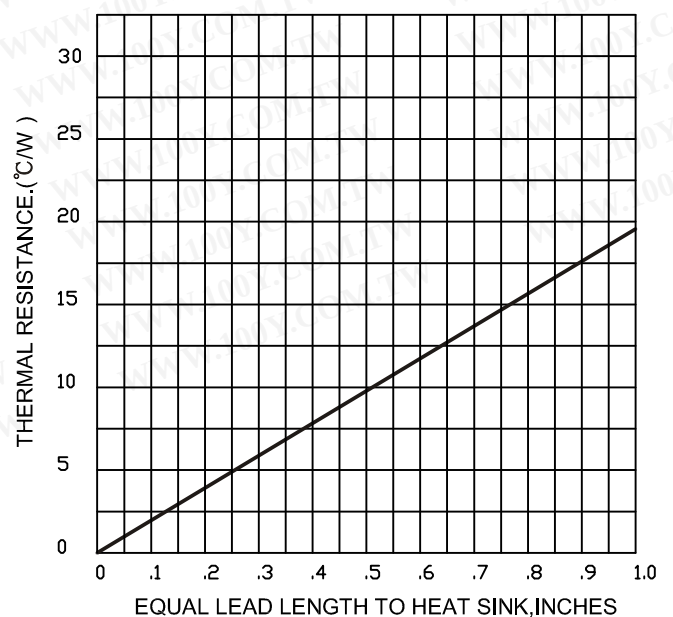


FIG.5 - TYPICAL THERMAL RESISTANCE VS. LEAD LENGTH



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)