

HER601 THRU HER606

HIGH EFFICIENCY RECTIFIERS

FEATURES:

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

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

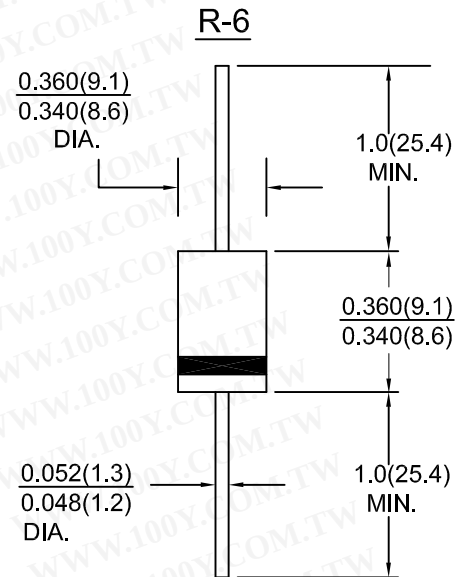
Epoxy: UL 94V-0 rate flame retardant

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

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 1.65 grams



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 %.

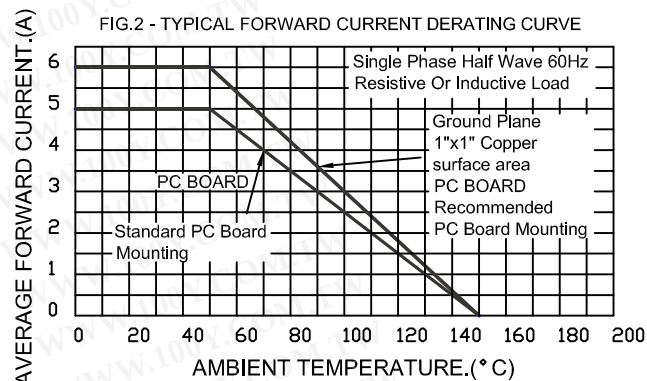
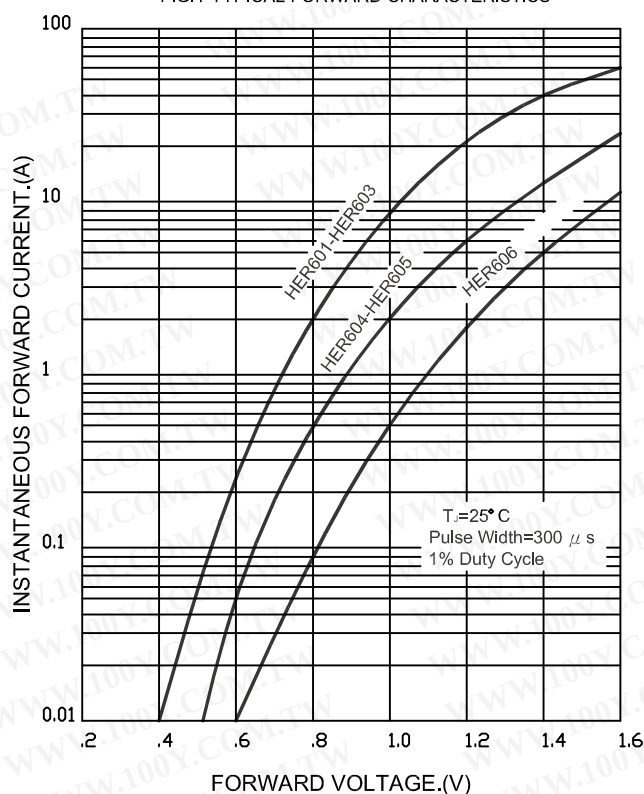
Characteristic	Symbol	HER 601	HER 602	HER 603	HER 604	HER 605	HER 606	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	300	400	600	Volts
Maximum RMS voltage	VRMS	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=50 ° 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	1.0			1.30		1.85	Volts
Maximum DC reverse current Ta=25 ° C at rated DC blocking voltage Ta=100 ° C	IR	10.0 200						μ A
Maximum reverse recovery time (note 1)	trr	50					75	nS
Typical junction capacitance (note 2)	Cj	100						pF
Operating and storage temperature range	Tj,Tstg	-65 to +150						° C

Notes : 1. Reverse recovery test condition : I F=0.5A ; IR=1.0A ; IRR=0.25A

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

RATINGS AND CHARACTERISTIC CURVES HER601 THRU HER606

FIG.1-TYPICAL FORWARD CHARACTERISTICS



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)

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

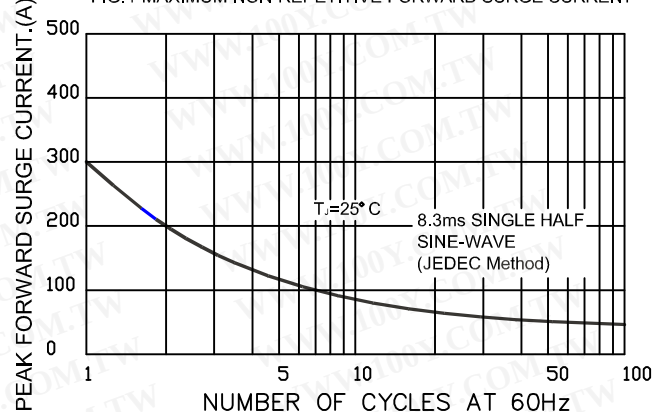
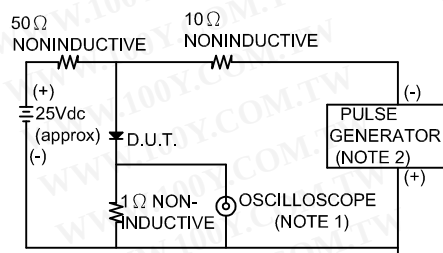


FIG.3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES:1. Rise Time=7ns max. Input Impedance=1 megohm, 22pF
 2. Rise Time=10ns max. Source Impedance=50 ohms

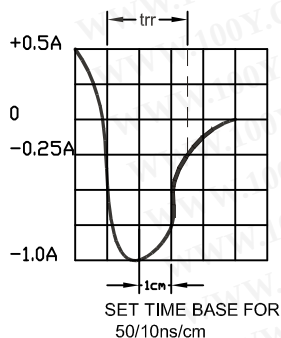


FIG.5-TYPICAL JUNCTION CAPACITANCE

