

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

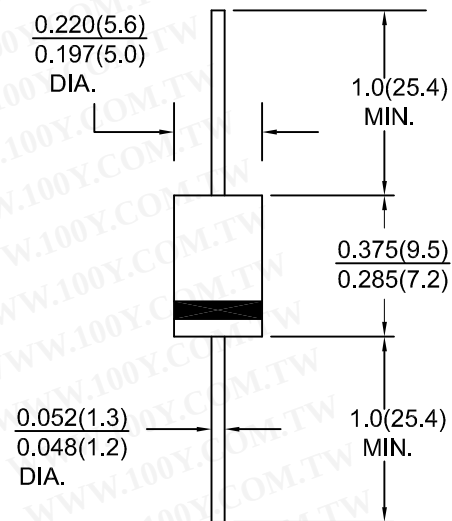
Lead : Axial leads, solderable per MIL-STD-202,
 Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.10 grams

DO-201AD



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.

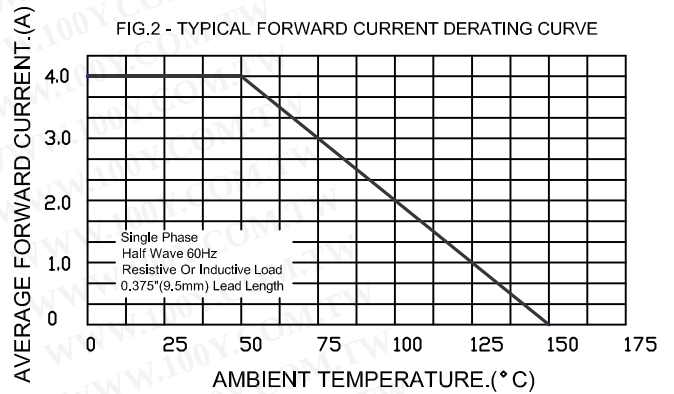
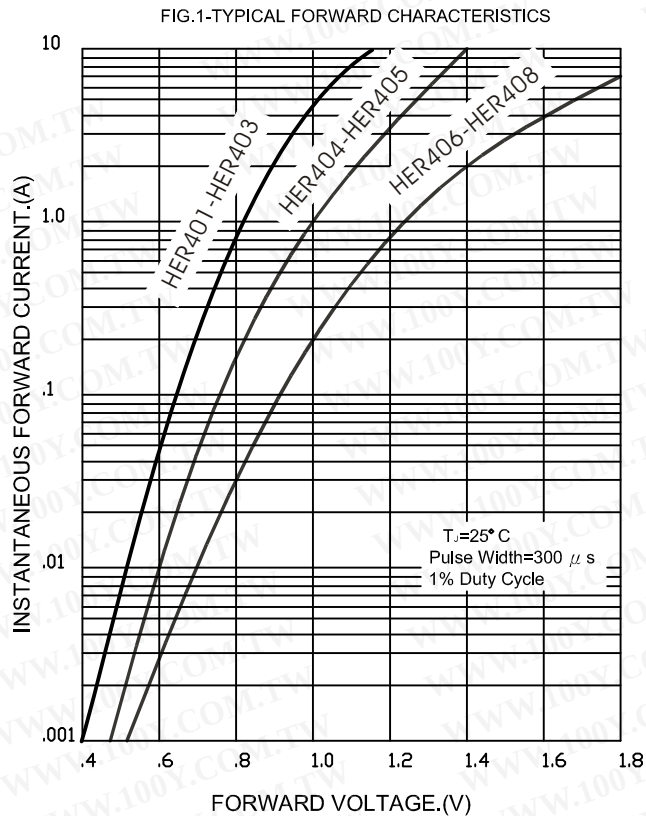
For capacitive load, derate current by 20 %.

Characteristic	Symbol	HER 401	HER 402	HER 403	HER 404	HER 405	HER 406	HER 407	HER 408	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=50 °C	Io	4.0								Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	200								Amps
Maximum instantaneous forward voltage at 4.0 A	VF	1.0			1.30		1.7			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	75								pF
Operating and storage temperature range	Tj,Tstg	-65 to +150								°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 1MHz and applied reverse voltage of 4.0V DC

RATING AND CHARACTERISTIC CURVES HER401 THRU HER408



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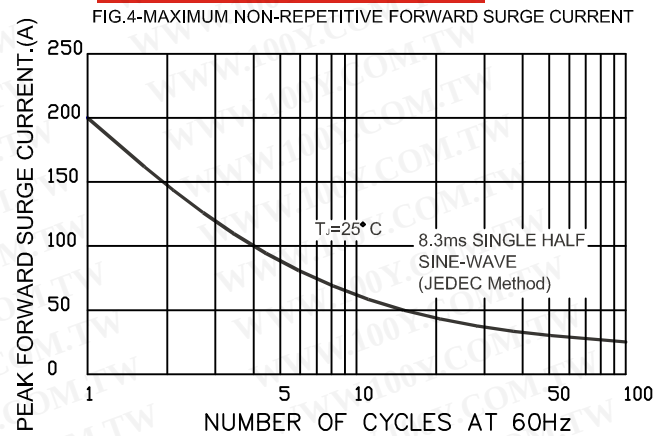
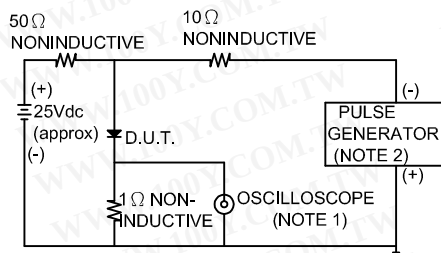


FIG.3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

