

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
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[Http://www.100y.com.tw](http://www.100y.com.tw)

MECHANICAL DATA

Case : Molded plastic

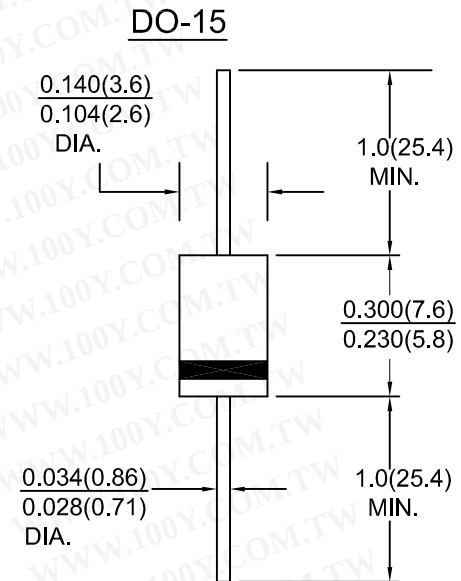
Epoxy: UL 94V-0 rate flame retardant

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

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.40 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	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	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	1.50								Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	50								Amps
Maximum instantaneous forward voltage at 1.5 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	5.0 150								μ A
Maximum reverse recovery time (note 1)	trr	50					75			nS
Typical junction capacitance (note 2)	Cj	30								pF
Operating and storage temperature range	Tj,Tstg	-65 to +150								°C

Notes : 1. Reverse recovery test condition : $I_F=0.5A$; $I_R=1.0A$; $IRR=0.25A$

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

RATING AND CHARACTERISTIC CURVES HER151 THRU HER158

FIG.1-TYPICAL FORWARD CHARACTERISTICS

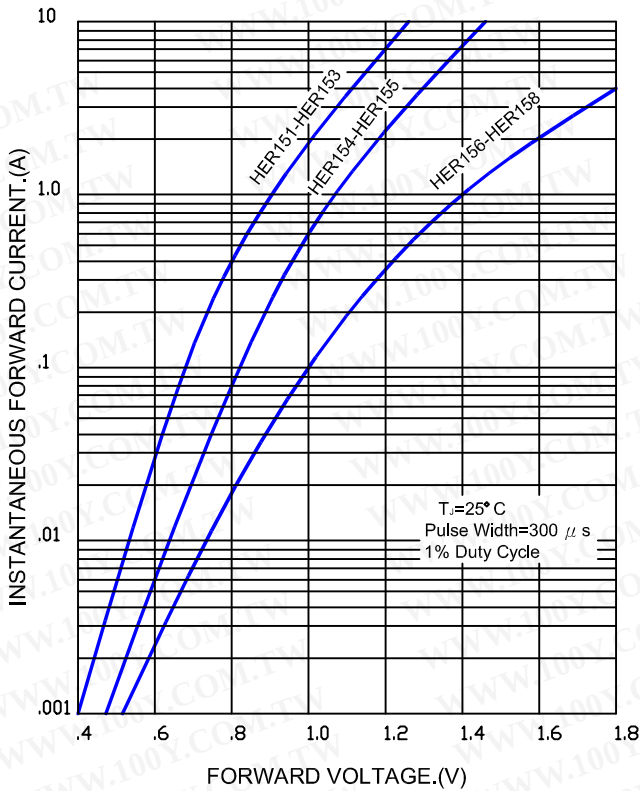


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

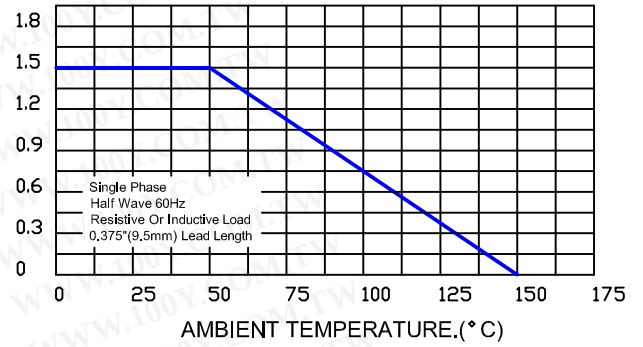
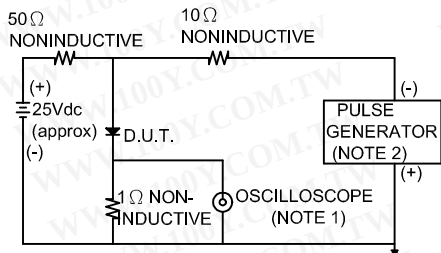


FIG.3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

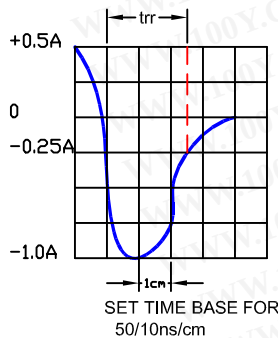


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

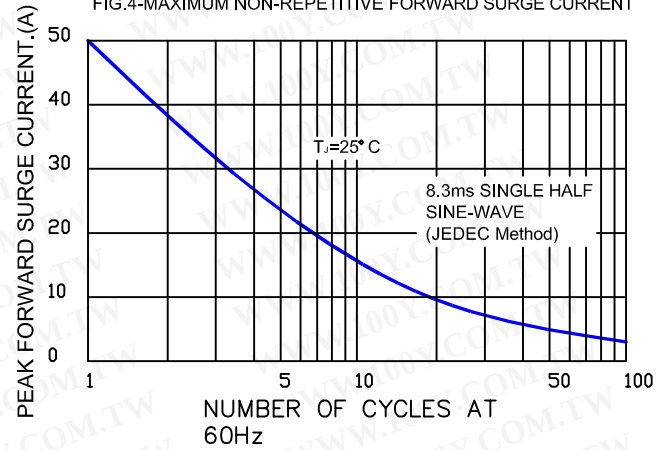


FIG.5-TYPICAL JUNCTION CAPACITANCE

