

## HER3001PT thru HER3008PT

# HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 30.0 Amperes

#### **FEATURES**

- ●Low power lose;high efficiency
- Low forward voltage drop
- ●Low thermal resistance
- High current capability
- High speed switching
- High surge capacity
- High reliability

### **MECHANICAL DATA**

●Case: TO-3P molded plastic

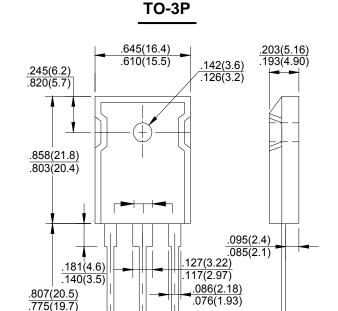
●Epoxy: UL94V-0 rate flame retadant

●Lead: MIL-STD-202E method 208C guaranteed

Mounting position :Any

■Weight:5.1grams

polarity: As marked



Dimensions in inches and (millimeters)

.225(5.7) .205(5.2) .030(0.76)

.020(0.51)

.048(1.22)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HER 3001PT	HER 3002PT	HER 3003PT	HER 3004PT	HER 3005PT	HER 3006PT	HER 3007PT	HER 3008PT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward  Rectified Current @TA =75 ℃	lo	30								Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	300								А
Typical Thermal Resistance	Reja	1.0								°C/W
Typical Junction Capacitance (Note2)	Сл	125							pF	
Maximum Peak Forward Voltage at 15.0A DC	VF	1.0 1.3 1.7 2.4			.4	V				
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	10 150								μΑ
Maximum Reverse Recovery Time(Note1)	Trr	70								nS
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150								$^{\circ}\!\mathbb{C}$

NOTES:1.Measured with IF=0.5A,IR=1A,IRR=0.25A

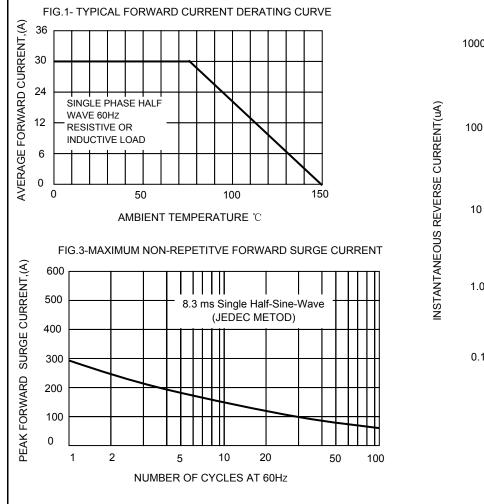
2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

3.The typical data above is for reference only(典型值仅供参考).

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# RATING AND CHARACTERTIC CURVES HER3001PT thru HER3008PT





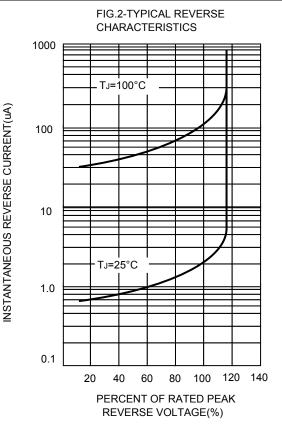


FIG.4-TYPICAL INSTANTAEOUS FORWARD CHARACTERISTICS

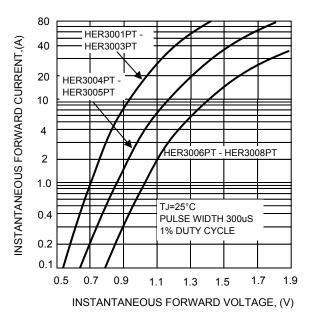
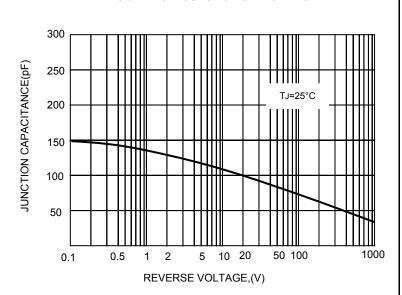


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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