

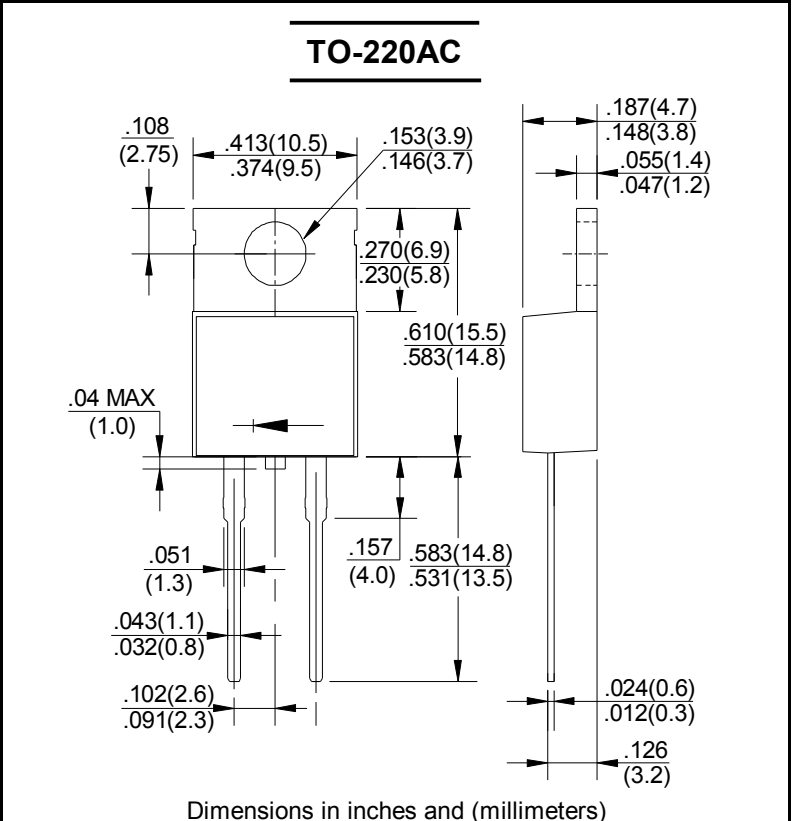
<b>HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 8.0 Amperes</b>
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**FEATURES**

- Low switching noise
- Low forward voltage drop
- Low thermal resistance
- High current capability
- High fast switching capability
- High surge capacity

**MECHANICAL DATA**

- Case: TO-220AC molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting position :Any
- Weight: 2.24 grams



**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 801	HER 802	HER 803	HER 804	HER 805	HER 806	HER 807	HER 808	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	600	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =75 °C	I <sub>O</sub>	8.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I <sub>FSM</sub>	300								A
Typical Thermal Resistance	R <sub>θJA</sub>	2.5								°C/W
Typical Junction Capacitance (Note2)	C <sub>J</sub>	40								pF
Peak Instantaneous Forward Voltage at 8.0A DC	V <sub>F</sub>	1.0		1.3			1.7			V
Maximum DC Reverse Current @T <sub>J</sub> =25 °C at Rated DC Blocking Voltage @T <sub>J</sub> =100 °C	I <sub>R</sub>	10								μA
Maximum Reverse Recovery Time(Note1)	T <sub>RR</sub>	60								nS
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 150								°C

NOTES: 1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>RR</sub>=0.25A  
 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

**RATING AND CHARACTERISTIC CURVES**  
**HER801 thru HER808**



FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

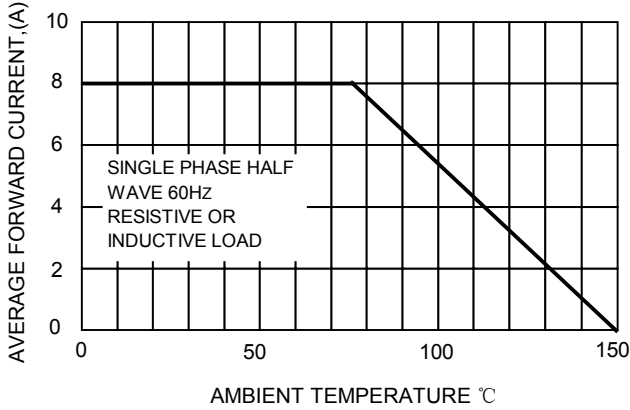


FIG.2-TYPICAL REVERSE CHARACTERISTICS

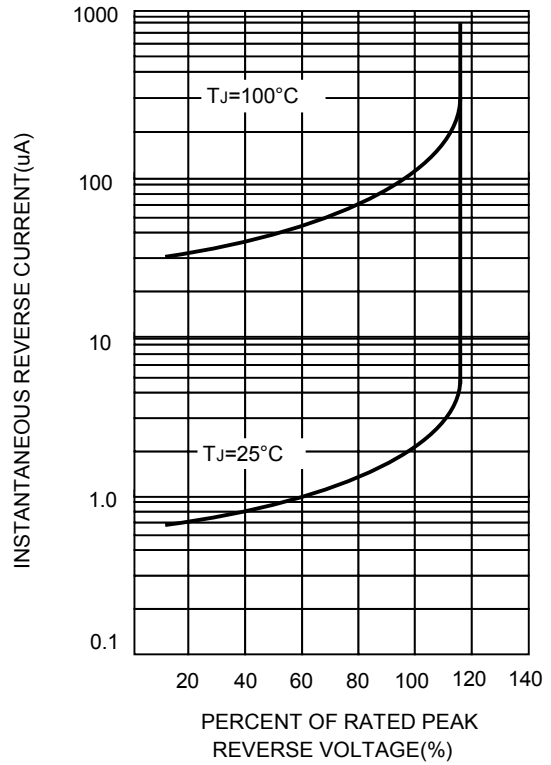


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

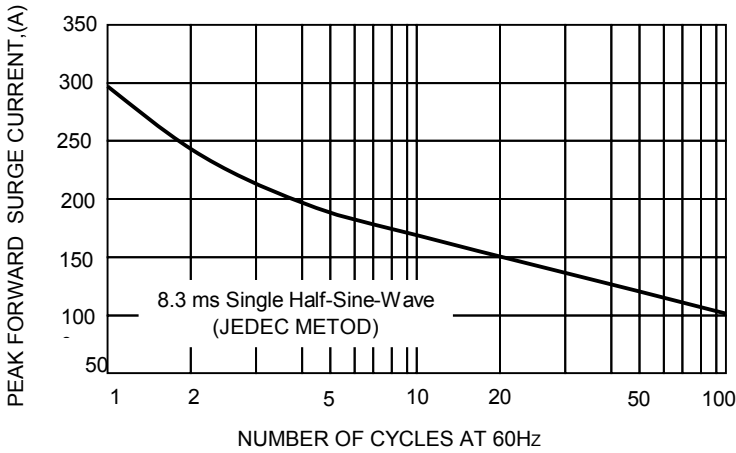


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

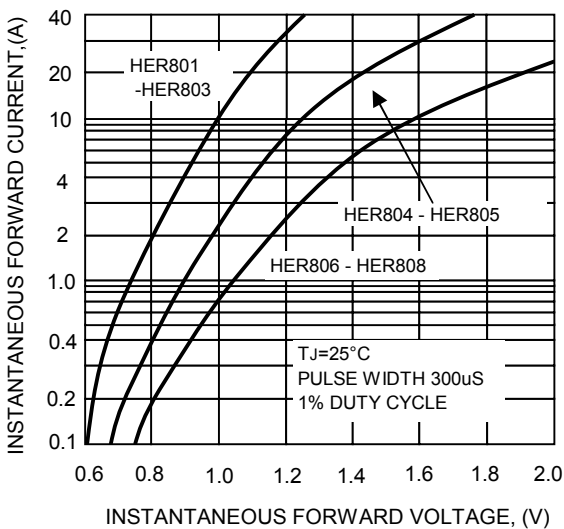


FIG.5-TYPICAL JUNCTION CAPACITANCE

