



HER801 thru HER808

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 8.0 Amperes

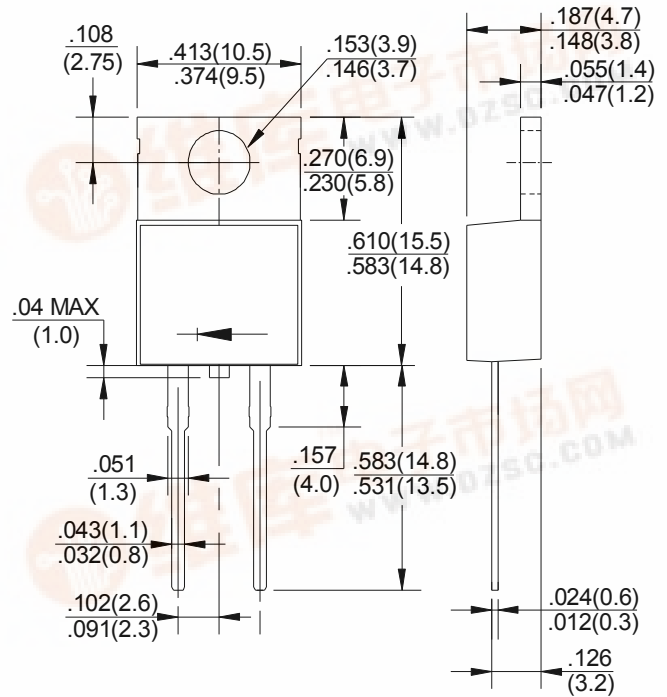
FEATURES

- 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

TO-220AC



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	VRRM	50	100	200	300	400	600	800	600	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	420	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	600	V
Maximum Average Forward Rectified Current @TA =75 °C	Io	8.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	300								A
Typical Thermal Resistance	RθJA	2.5								°C/W
Typical Junction Capacitance (Note2)	CJ	40								pF
Peak Instantaneous Forward Voltage at 8.0A DC	VF	1.0			1.3		1.7			V
Maximum DC Reverse Current @TJ=25°C	IR	10								μA
at Rated DC Blocking Voltage @TJ=100°C		150								
Maximum Reverse Recovery Time(Note1)	TRR	60								nS
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150								°C

NOTES:1.Measured with I_F=0.5A,I_R=1A,I_{RR}=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

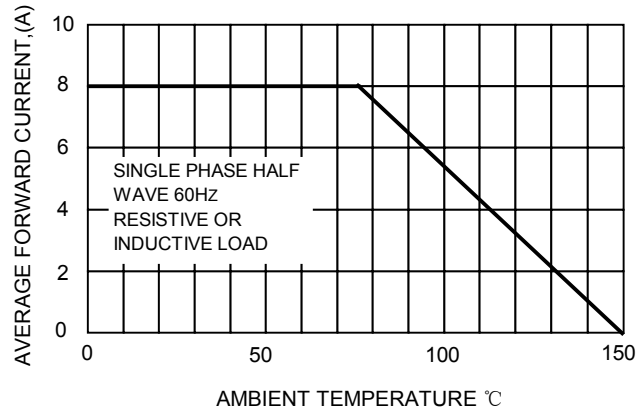


FIG.2-TYPICAL REVERSE CHARACTERISTICS

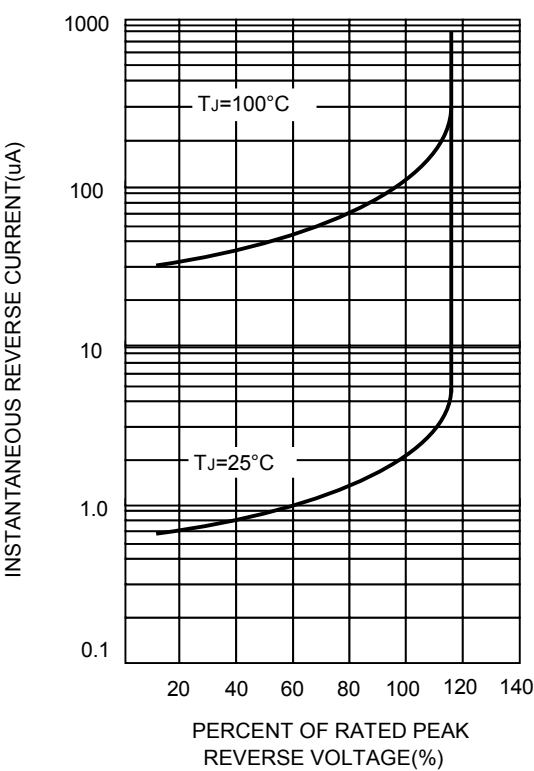


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

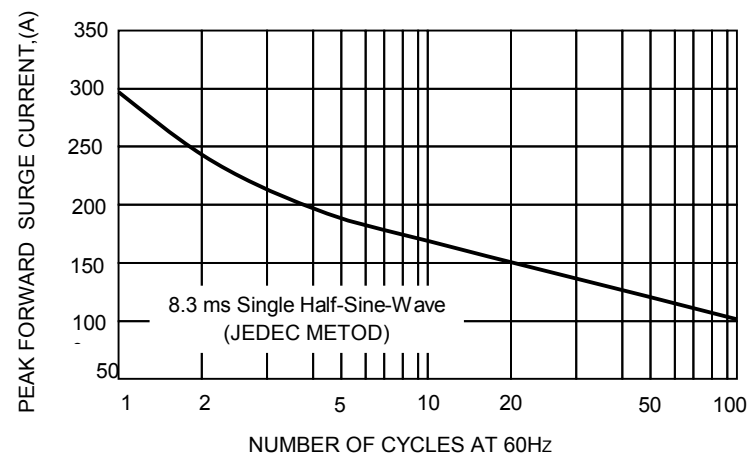


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

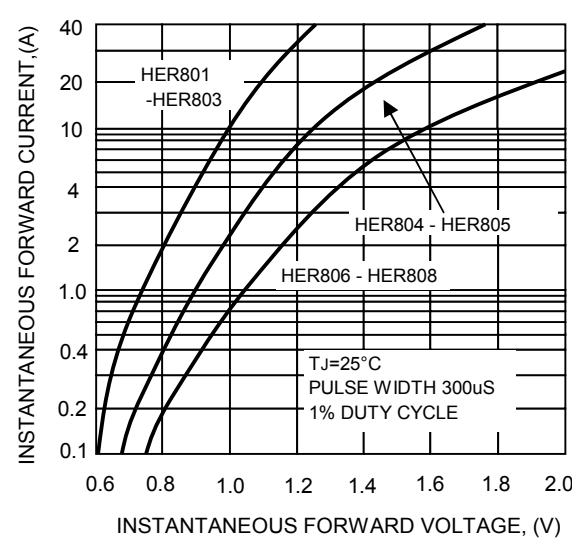


FIG.5-TYPICAL JUNCTION CAPACITANCE

