HER801 THRU HER808

8.0AMPS. GLASS PASSIVATED HIGH EFFICIENT RECTIFIERS

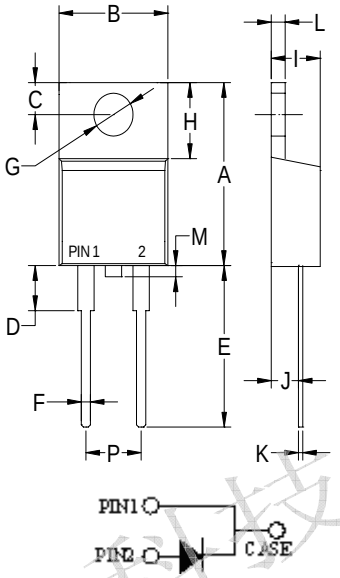
FEATURE

- Low forward voltage drop;
- High current capability;
- High reliability;
- High surge current capability;
- Epitaxial construction.
- High temperature soldering guaranteed:
  260°C /10sec/0.16",(4.06mm) from case.

MECHANICAL DATA

- Terminals: Lead solderable per MIL-STD-202, method 208 guranteed.
- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: As Marked
- Mounting position:Any

TO-220A



Dim	Min	Max
A	14.9	15.8
B	———	10.5
C	2.62	2.87
D	3.56	4.06
E	13.0	14.3
F	0.68	0.94
G	Φ3.74	Φ3.91
H	5.84	6.86
I	4.44	4.86
J	2.54	2.79
K	0.35	0.64
L	1.14	1.40
P	5.20	4.95
M	———	0.50

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYMBOL	HER 801	HER 802	HER 803	HER 804	HER 805	HER 806	HER 807	HER 808	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Tc=100 C	$I_{F(AV)}$	8.0								A
Peak Forward Surge Current 8.3ms singlehalf sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150.0								A
Maximum Forward Voltage at 8.0A DC	V_F	1.0				1.3	1.7			V
Maximum DC Reverse Current@Ta =25°C at rated DC blocking voltage@ Ta =100°C	I_R	10.0 400								uA uA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	50					75			ns
Typical Junction Capacitance (Note2)	C_J	80					50			pF
Typical Thermal Resistance (Note3)	$R_{(JA)}$	3.0								℃/W
Storage Temperature	T_{STG}	-55 to +150								°C
Operating Junction Temperature	T_J	-55 to +150								°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance From Junction to Case Mounted on Heatsink.

RATING AND CHARACTERISTIC CURVES (HER801 THRU HER808)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

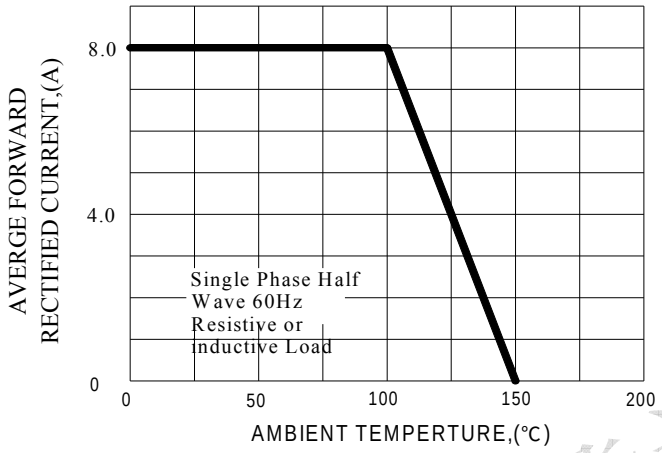


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

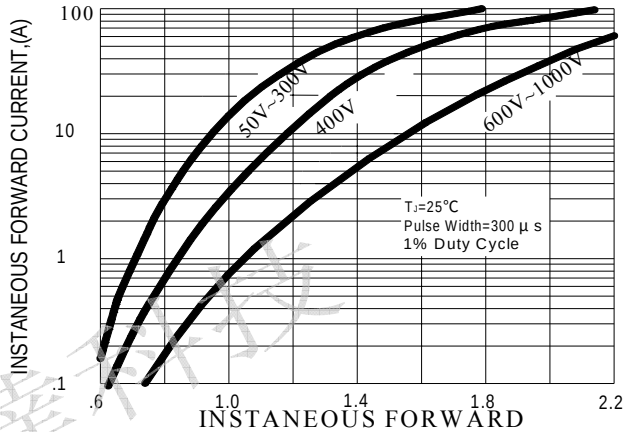


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

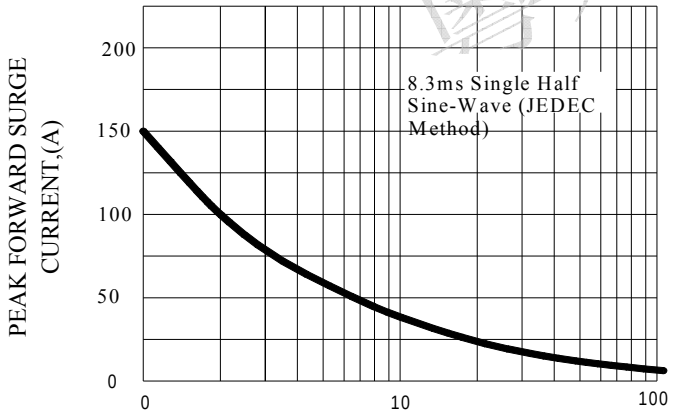


FIG.4-TYPICAL REVERSE CHARACTERISTICS

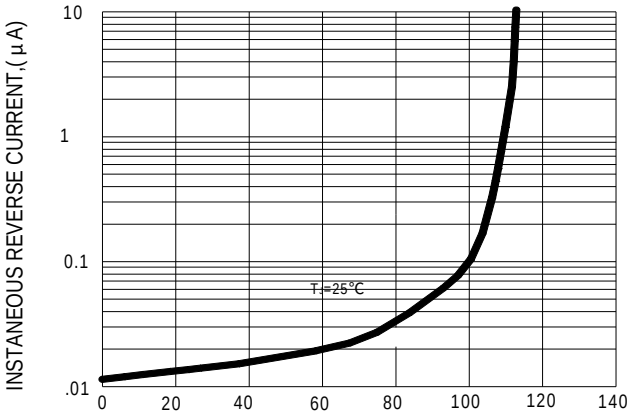
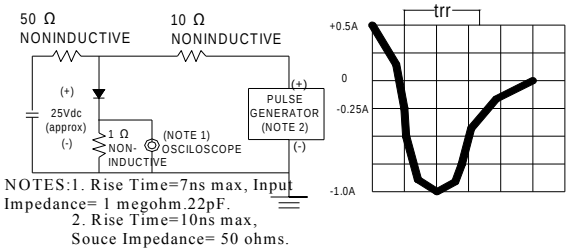


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



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