HER801 THRU HER808

GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **8.0 AMPERE**

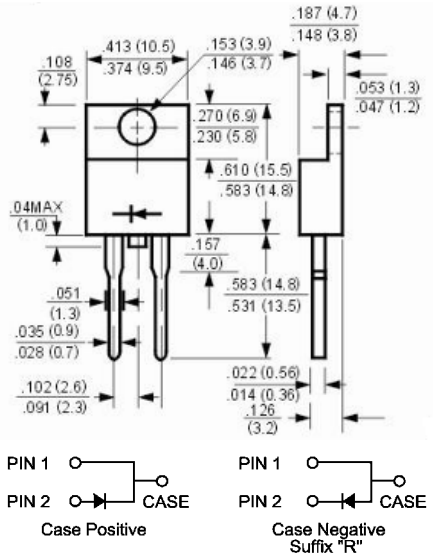
FEATURES

· Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.
· Low power loss, high efficiency.
· Low forward voltage, high current capability
· High surge capacity.
· Ultra fast recovery times, high voltage.
· Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, TO-220A
Epoxy: UL 94V-O rate flame retardant
Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed
Polarity: As marked
Mounting position: Any
Weight: 0.08ounce, 2.24gram

TO-220A



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*HER801*	*HER802*	*HER803*	*HER804*	*HER805*	*HER806*	*HER807*	*HER808*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_C=100℃	$I_{(AV)}$	8.0								**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150								**Amp**
Maximum Forward Voltage at 8.0A and T_A=25℃	V_F	1.0			1.3		1.7			**Volts**
Maximum Reverse Current at T_A=25℃	I_R	10.0								**uAmp**
at Rated DC Blocking Voltage T_A=125℃		250								
Typical Junction Capacitance (Note 1)	C_J	80					50			**pF**
Maximum Reverse Recovery Time (Note 2)	T_{RR}	50					80			**nS**
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	3								**℃/W**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150								**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
2- Reverse Recovery Test Conditions：I_F=.5A，I_R=1A，I_{RR}=.25A.
3- Thermal Resistance from Junction to Case Mounted on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

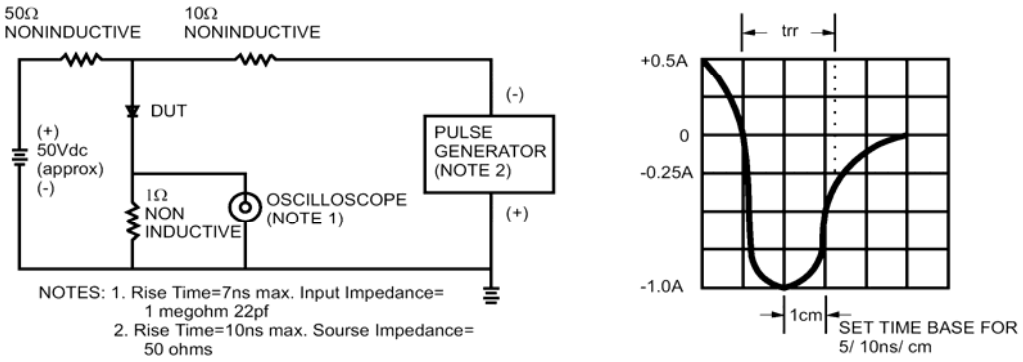

FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

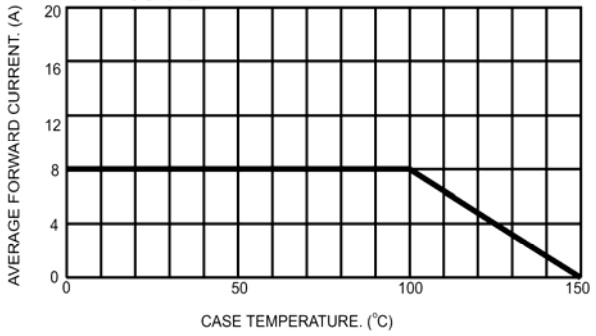

FIG.3- TYPICAL REVERSE CHARACTERISTICS

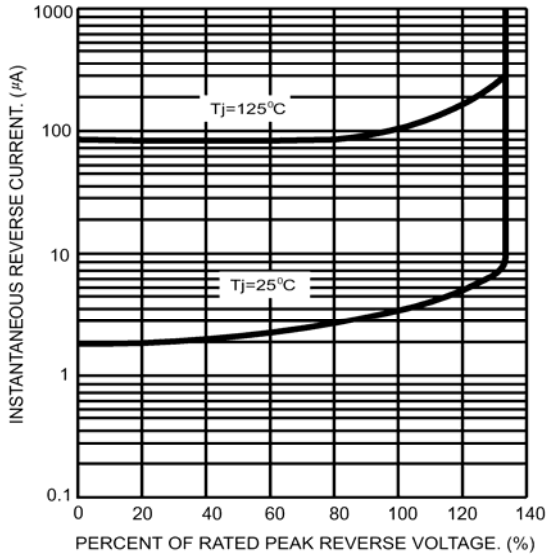

FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

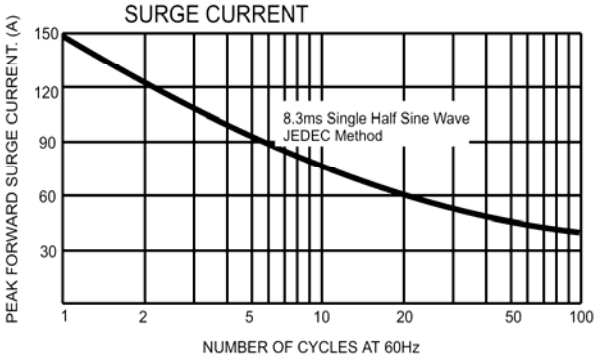

FIG.5- TYPICAL JUNCTION CAPACITANCE

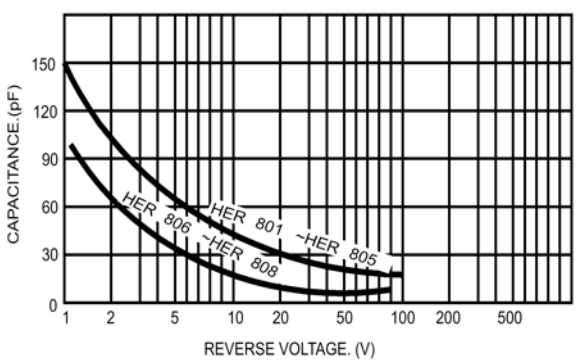

FIG.6- TYPICAL FORWARD CHARACTERISTICS