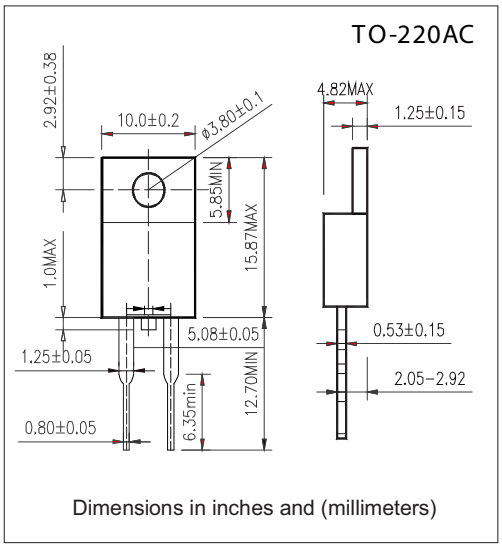
HER801 - HER807

Voltage Range - 50 to 800 V
Forward Current - 8 Ampere

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

FEATURES

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High speed switching
- High current capacity, high surge capacity
- High temperature soldering guaranteed
  200℃/10 second, 0.16″ (4.06mm) lead length from case
  Also available in reverse polarity, add the "R" Suffix, i.e. HER801R
  Also available in isolated package under part number HERF801



MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOLS	HER 801	HER 802	HER 803	HER 804	HER 805	HER 806	HER 807	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	Volts
Maximum Average Forward Rectified Current At Tc=100℃	$I_{(AV)}$	8.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	125							Amps
Maximum Instantaneous Forward Voltage at 8.0A	V_F	1.0			1.3		1.5	1.7	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage T_A = 25℃	I_R	10							µA
T_A = 100℃		500							
Maximum Reverse Recovery Time Test conditions I_F =0.5A, I_R =1.0A, I_{RR} =0.25A	t_{rr}	70					100		nS
Typical Junction Capacitance (Note 1)	C_J	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.5							℃/W
Operating Junction Temperature Range	T_J	(-55 to +150)							℃
Storage Temperature Range	T_{STG}	(-55 to +150)							℃

Notes:
1. Unit mounted on heatsink
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V

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RATING AND CHARACTERISTIC CURVES HER801 - HER807

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

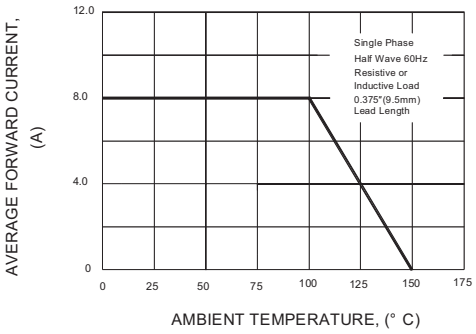


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

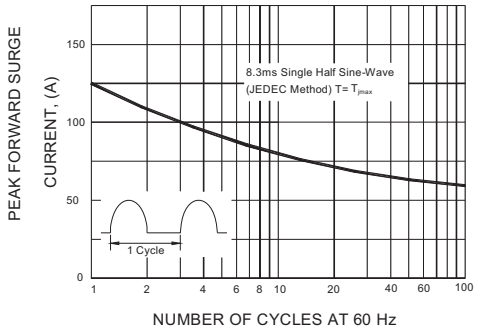


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

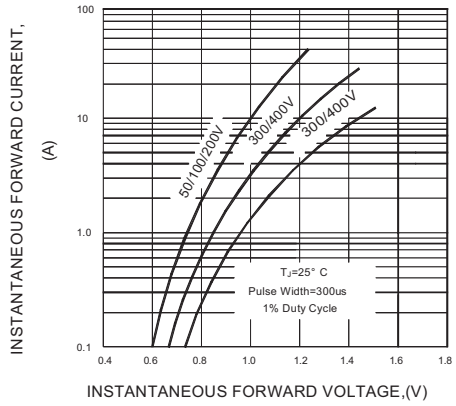


FIG.4-TYPICAL REVERSE CHARACTERISTICS

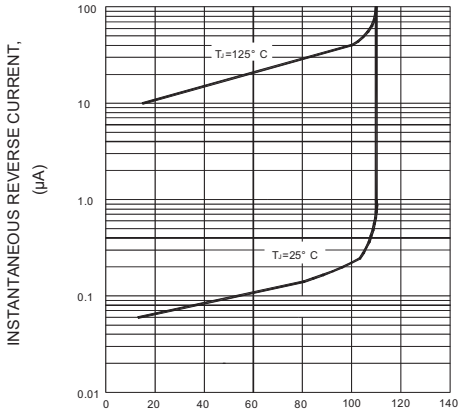
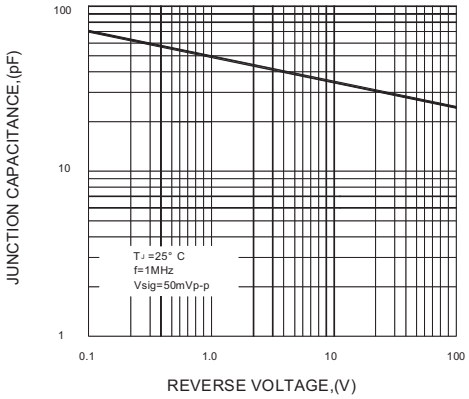
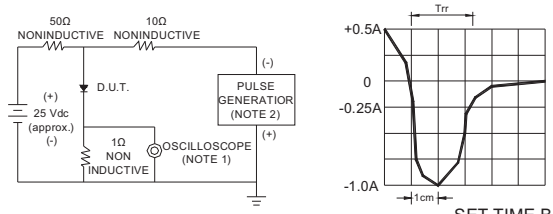


FIG.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES : 1.Rise Time=7ns mas. Input Impedance= 1 magohm. 22pF
2.Rise time=10ns max. Source Impedance= 50 ohms

SET TIME BASE FOR 50/100ns/cm

Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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