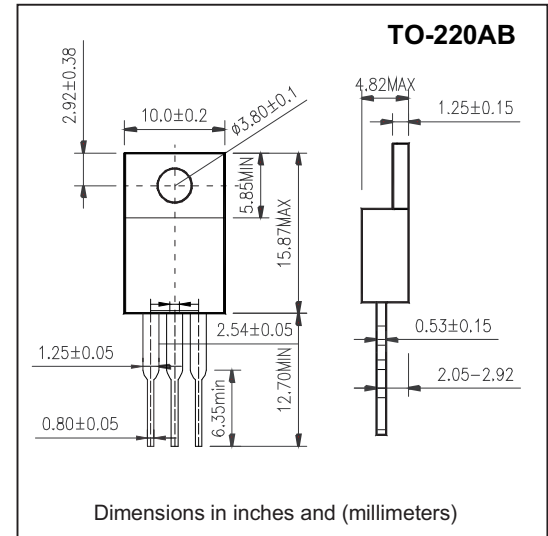


## HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

### FEATURES

- High speed switching
- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High surge capacity
- High temperature soldering guaranteed  
250°C/10 second, 0.16" (4.06mm) lead length
- Also available with common Anode, add an "A" suffix, i.e. HER1601CA, and as a doubler, add a "D" suffix, i.e. HER1601CD
- Also available in an isolated package, HERF1601C
- Also available in the single chip version, HER1601



### MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202E method 208C
- Polarity: as Marked
- Mounting position: Any, 5 in-lbs Torque Max
- Weight: 0.08 ounce, 2.24 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

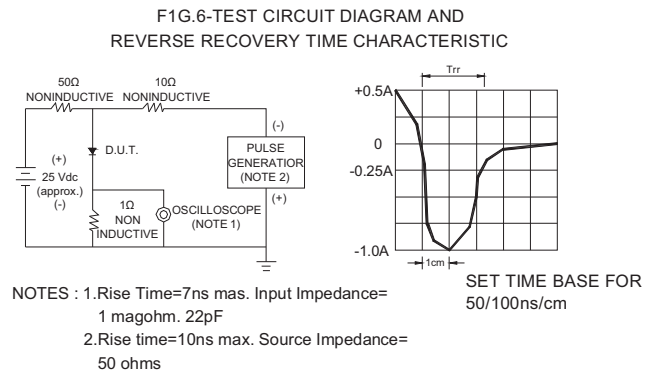
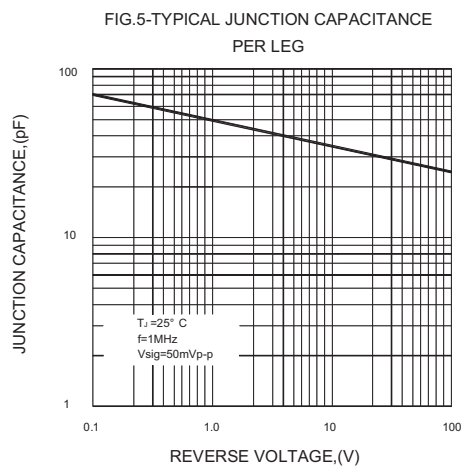
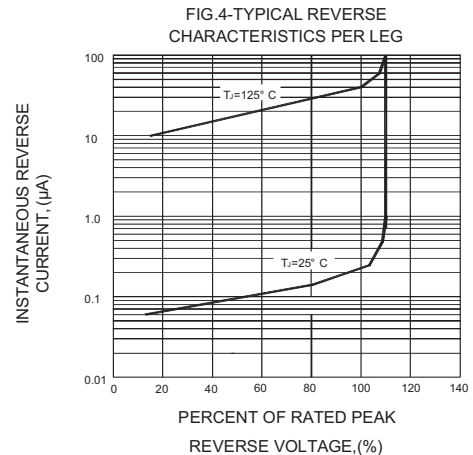
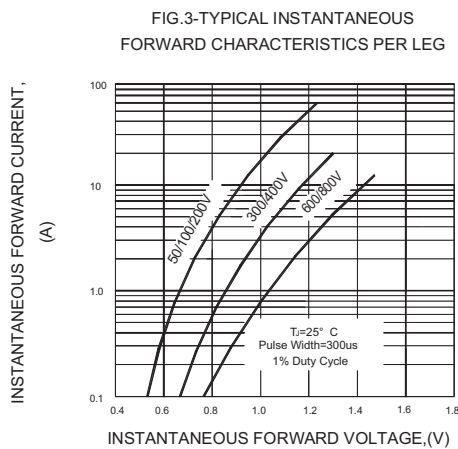
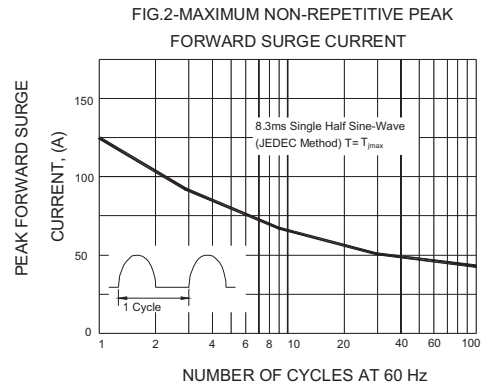
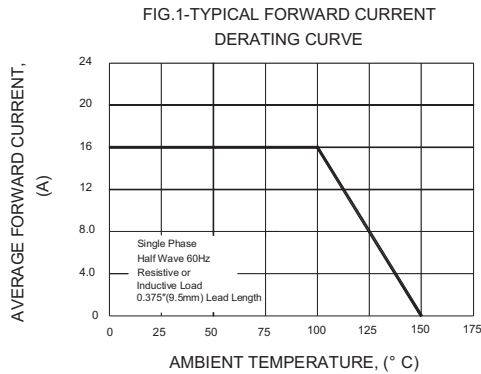
PARAMETER	SYMBOLS	HER 1601C	HER 1602C	HER 1603C	HER 1604C	HER 1605C	HER 1606C	HER 1607C	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	600	800	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	420	560	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	600	800	Volts
Maximum Average Forward Rectified Current At $T_c=100^\circ\text{C}$	$I_{(AV)}$	16.0							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 at	$I_R$	$T_A = 25^\circ\text{C}$							$\mu\text{A}$
		$T_A = 125^\circ\text{C}$							
Maximum Reverse Recovery Time Test conditions $I_F=0.5\text{A}$ , $I_R=1.0\text{A}$ , $I_{RR}=0.25\text{A}$	$t_{rr}$	70					100		nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	$C_J$	40							pF
Typical Thermal Resistance (NOTE 1)	$R_{\theta JC}$	2.5							$^\circ\text{C}/\text{W}$
Operating Junction Temperature	$T_J$	(-55 to +150)							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	(-55 to +150)							$^\circ\text{C}$

#### Notes:

1. Unit mounted on heatsink

## HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

### RATING AND CHARACTERISTIC CURVES HER1601C - HER1607C



#### Disclaimer

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