

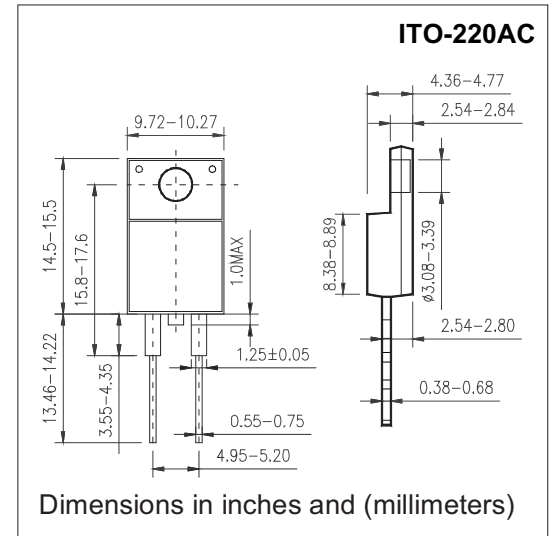
HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

FEATURES

- High speed switching
- Glass passivated chip junction
- Low power loss for high efficiency
- Low leakage
- High surge capacity
- High temperature soldering guaranteed
250°C/10 second, 0.16”(4.06mm) lead length
- Also available in reverse polarity, add the “R” Suffix,
i.e. HERF1601R
- 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%

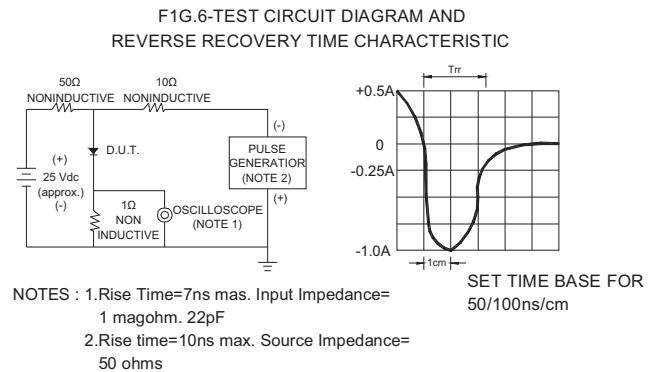
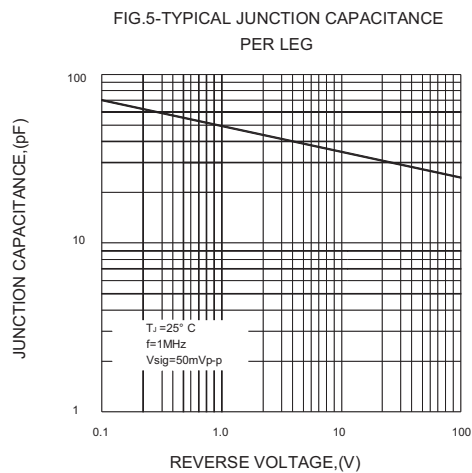
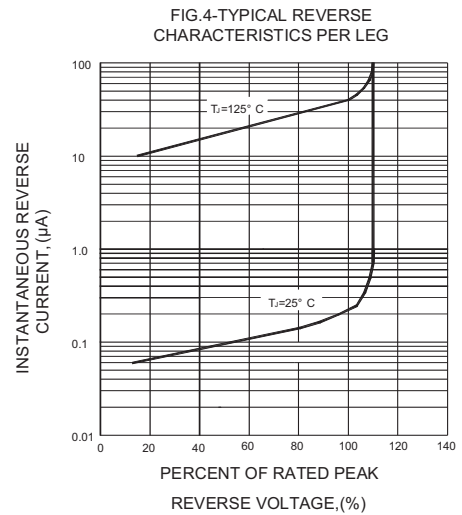
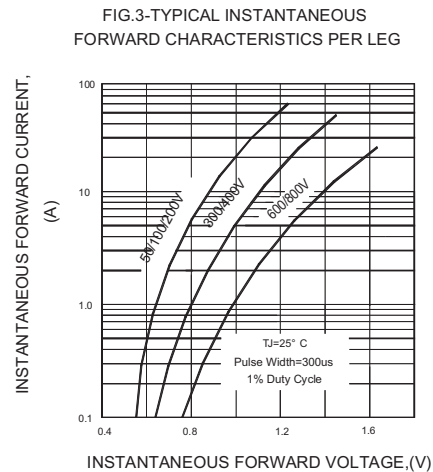
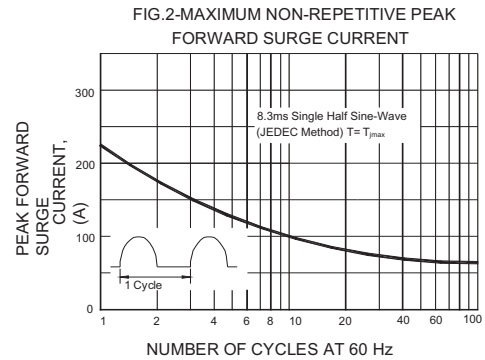
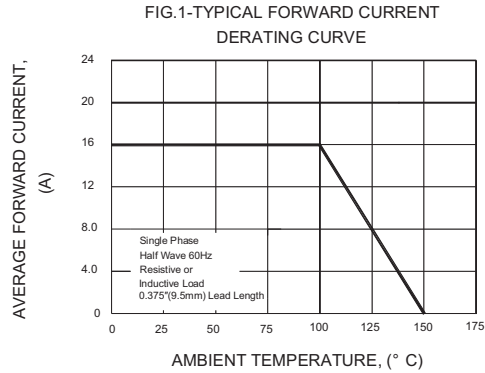
	SYMBOLS	HERF 1601	HERF 1602	HERF 1603	HERF 1604	HERF 1605	HERF 1606	HERF 1607	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	Volts
Maximum Average Forward Rectified Current At $T_c=100^\circ\text{C}$	$I_{(AV)}$	16.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	225							Amps
Maximum Instantaneous Forward Voltage per at 16.0A	V_F	1.0		1.3		1.5	1.7		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	I_R	$T_A = 25^\circ\text{C}$ 10							μA
		$T_A = 125^\circ\text{C}$ 500							
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)	$R_{\theta JC}$	3.0							$^\circ\text{C}/\text{W}$
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

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RATING AND CHARACTERISTIC CURVES HERF1601 - HERF1607



Disclaimer

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