



HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

HER601G THRU HER607G

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

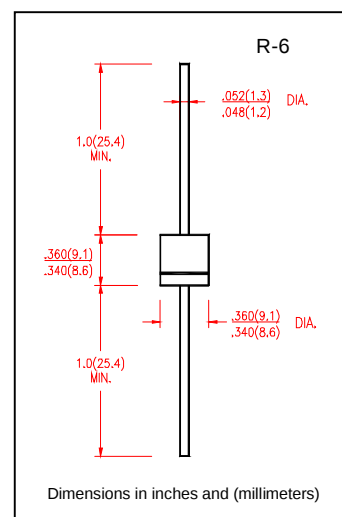
6.0 Ampere

FEATURES

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High speed switching
- High surge capacity
- High temperature soldering guaranteed
260°C/10 seconds, 0.375" (9.5mm) lead length

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: 0.07ounce, 2.0 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	HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	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 0.375" (9.5mm) lead length at T _A =50℃		I _(AV)	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	200					150		Amps
Maximum Instantaneous Forward Voltage at 6.0A		V _F	1.0			1.3		1.5	1.7	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	T _A = 25℃	I _R	10							μA
	T _A = 125℃		500							
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm) lead length at T _L =55℃		I _{R(AV)}	150							μA
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 2)		C _J	40							pF
Typical Thermal Resistance (NOTE 1)		R _{θJA}	20							℃/W
Operating Junction Temperature Range		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

1. Thermal Resistance from Junction to ambient with 0.375" (9.5mm) lead length, PCB mounted.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V



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RATING AND CHARACTERISTIC CURVES HER601G THRU HER607G

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

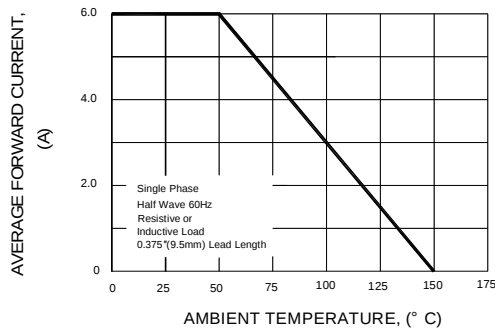


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

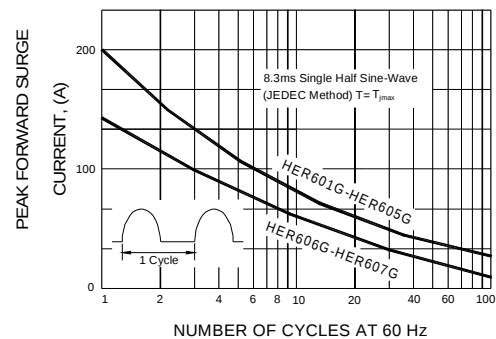


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

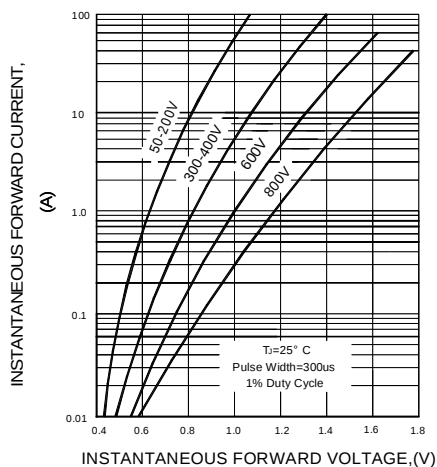


FIG.4-TYPICAL REVERSE CHARACTERISTICS

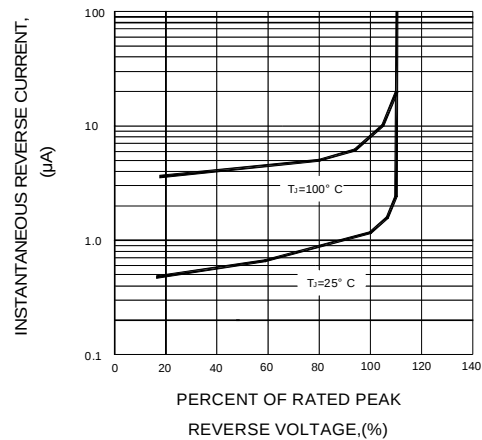


FIG.5-TYPICAL JUNCTION CAPACITANCE

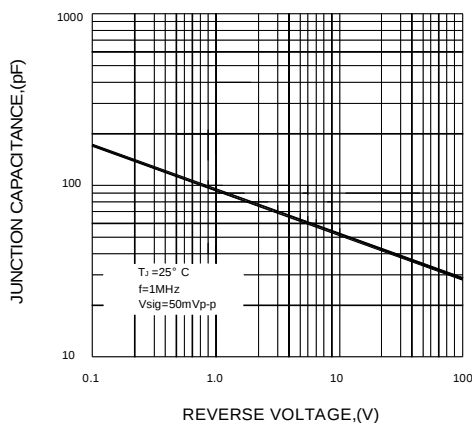
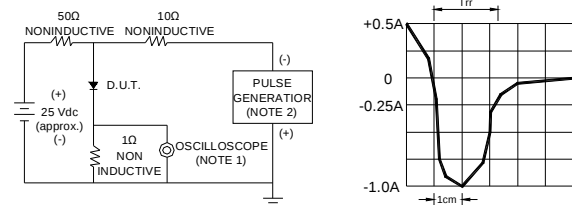


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

SET TIME BASE FOR 50/100ns/cm