



HIGH EFFICIENCY RECTIFIER

HER601 THRU HER607

VOLTAGE RANGE
CURRENT

50 to 800 Volts
6.0Ampere

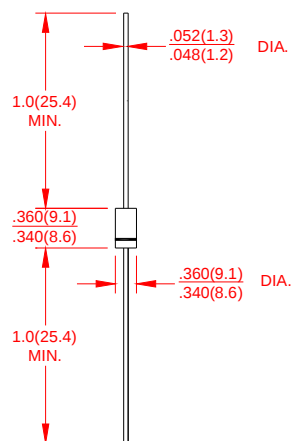
R-6

FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O 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 grams



Dimensions in inches and (millimeters)

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 601	HER 602	HER 603	HER 604	HER 605	HER 606	HER 607	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 0.375”(9.5mm) lead length at T _A = 50℃	I _(AV)	5.0							Amp	
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	200							Amps	
Maximum Instantaneous Forward Voltage @ 6.0A	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 = 125℃		500							
Maximum Full Load Recovery Current,full cycle average 0.375”(9.5mm)lead length at T _L =55℃	IR _(AV)	150							μA	
Maximum Reverse Recovery Time(NOTE 1)	t _{rr}	70					100		ns	
Typical Thermal Resistance (NOTE 2)	C _J	110							PF	
Typical Thermal Resistance(NOTE 3)	R _{θJA}	10							℃/W	
Operating Junction Temperature Range	T _J ,T _{STG}	(-55 to +150)							℃	

Notes:

- 1 Test Condition: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. Measured at 1.0 MHz and applied reverse of 4.0 V
- 3 Thermal resistance from junction to ambient with .375"(9.5mm)lead length, P.C.B. mounted. .



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RATING AND CHARACTERISTIC CURVES HER601 THRU HER607

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

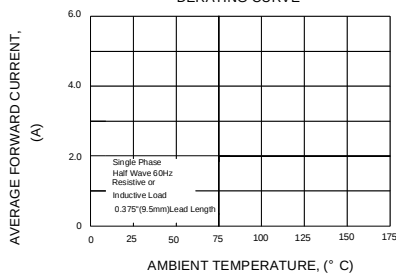


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

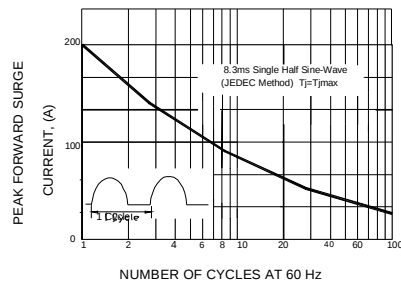


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

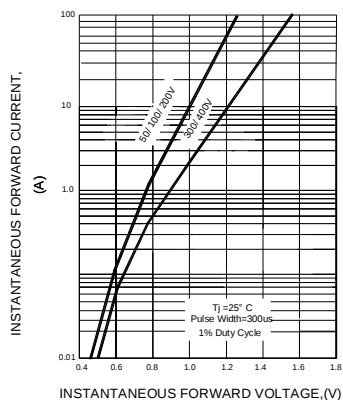


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

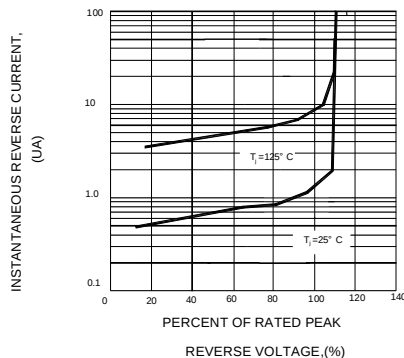


FIG.5-TYPICAL JUNCTION CAPACITANCE

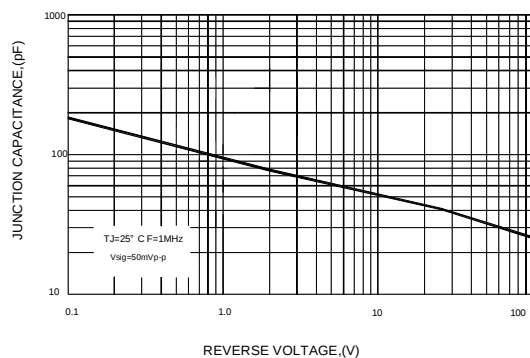


FIG.6-TEST CIRCUIT DIAGRAM AND
REVERSE RECOVERY TIME CHARACTERISTIC

