

HER101 THRU HER108

VOLTAGE RANGE CURRENT 50 to 1000 Volts 1.0Ampere

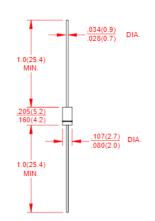
DO-41

FEATURES

- Low coat construction
- · Fast switching for high efficency.
- 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: 0.012ounce, 0.33 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOLS	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	210	280	420	560	800	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _A = 50 ℃		$I_{(AV)}$	1.0								Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	30								Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V_{F}	1.0 1.3			.3	1.5	1.7		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25℃	I_R	5.0								μА
	T _A = 125℃	1R	250								
Maximum Full Load Recovery Current, full cycle average 0.375"(9.5mm)lead length at TL=55°C		IR _(AV)	100								μΑ
Maximum Reverse Recovery Time (NOTE1)		trr	50 75						ns		
Typical Thermal Resistance (NOTE 2)		C_J	15 12						PF		
Typical Thermal Resistance(NOTE 3)		$R_{\theta JA}$	60								℃/W
Operating Junction Temperature Range		T _J T _{STG}	(-55 to +150)								℃

Notes:

- 1. Test Conditions:If=0.5mA,Ir=1.0mA,Irr=0.25A
- 2. Measured at 1 MHz and applied reverse of 4.0 volts.
- 3. Thermal resistance from junction to ambient with .375"(9.5mm)lead length, P.C.B. mounted.

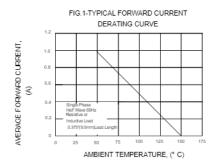
E-mail: sales@cnmic.com Web Site: www.cnmic.com

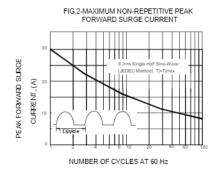


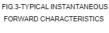
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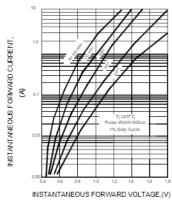
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RATING AND CHRACTERISTIC CURVES HER101 THRU HER108









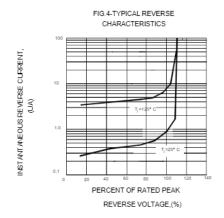


FIG.5-TYPICAL JUNCTION CAPACITANCE

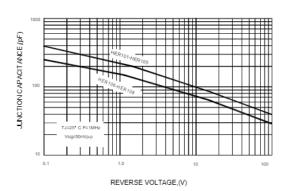
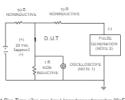
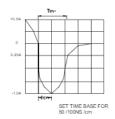


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE REXOVERY TIME CHARACTERISTIC





NOTE: 1.Rise Time =7ns max.Input Impedance=1megohm.22 2.Rise time=10ns max.Source Impedance=50 ohms

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