

Voltage Range - 50 to 1000 V Forward Current - 1 Ampere

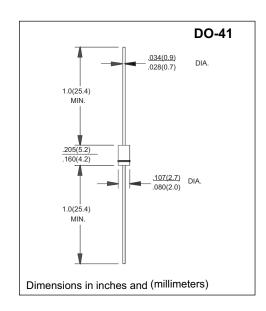
## **HIGH EFFICIENCY RECTIFIER**

#### **FEATURES**

- Low cost 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: 0.012ounce, 0.33 grams



#### 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 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 <sub>A</sub> = 50°C	I <sub>(AV)</sub>	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	$V_{\rm F}$	1.0 1.3 1.5 1.7					.7	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^{\circ}C$	I <sub>R</sub>	5.0 250								μА
Maximum Full Load Recovery Current, full cycle average 0.375"(9.5mm)lead length at TL=55 ℃	IR <sub>(AV)</sub>	100						μА		
Maximum Reverse Recovery Time (NOTE1)	trr	50 75						ns		
Typical Thermal Resistance (NOTE 2)	$C_{J}$	15 12						PF		
Typical Thermal Resistance(NOTE 3)	$R_{ heta JA}$	60								°C/W
Operating Junction Temperature Range	$T_J T_{STG}$	(-55 to +150)								$^{\circ}$ C

#### **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.

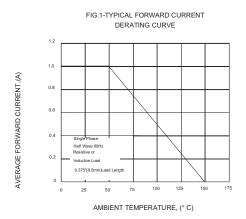
Email: sales@micindia.com Website: www.micindia.com

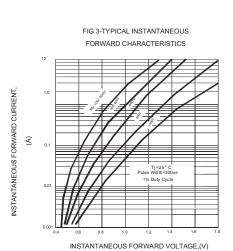


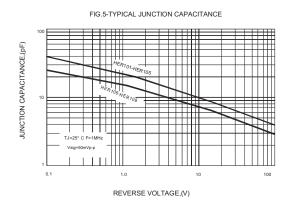
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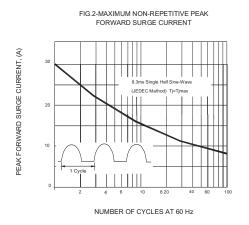
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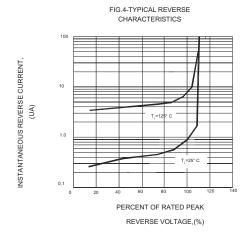
### RATING AND CHARACTERISTIC CURVES HER101 - HER108

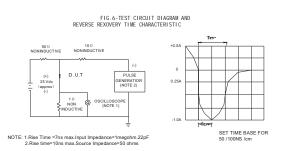












#### Disclaimer

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

Email: sales@micindia.com Website: www.micindia.com