

# 2 A High Efficiency Rectifiers HER201G THRU HER208G 50 to 1000 V 2.0 A

### **FEATURES**

- · Glass passivated junction
- Low power loss, high efficiency
- Low leakage
- Low forward voltage drop
- High current capability
- High speed switching
- High reliability
- High current surge

#### **MECHANICAL DATA**

- Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL- STD-202, Method 208 guaranteed
- · Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 0.40 gram
- Dice:55\*55(mil)

# .140(3.6) .104(2.6) DIA. 1.0(25.4) MIN. .300(7.6) .230(5.8) .230(5.8) .1.0(25.4) MIN.

Dimensions in inches and (millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, Resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbols	HER 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current. 375" (9.5mm) Lead Length @ T <sub>A</sub> =55 °C	I <sub>(AV)</sub>	2.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60								Amp
Maximum instantaneous Forward Voltage @2.0A	V <sub>F</sub>	1.0				1.3	1.75			Volts
Maximum Reverse Current @ $T_A$ =25°C at Rated DC Blocking Voltage @ $T_A$ =100°C	I <sub>R</sub>	5.0 100								uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	50				75				nS
Typical Junction Capacitance (Note2)	CJ	50 30							pF	
Operating Temperature Range	TJ	-55 to +150								$^{\circ}\mathbb{C}$
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								$^{\circ}$

#### **NOTES:**

- 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A
- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



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## RATINGS AND CHARACTERISTIC CURVES (HER201G THRU HER208G)















