



## HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

## FEATURES

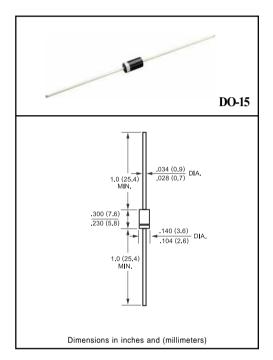
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capability
- \* High reliability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.4 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	HER201G	HER202G	HER203G	HER204G	HER205G	HER206G	HER207G	HER208G	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA= 50°C	lo	2.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60						Amps		
Typical Junction Capacitance (Note 2)	CJ	30 20					pF			
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥C		

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	HER201G HER202G HER20	3G HER204G HER205G	HER206G HER207G HER208			
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.0	1.3	1.7	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0					
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C	lR	100					
Maximum Reverse Recovery Time (Note 1)	trr	50		75	nSec		

NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

# RATING AND CHARACTERISTIC CURVES (HER201G THRU HER208G)

