

HER101G THRU HER108G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

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

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-O rate flame retardant

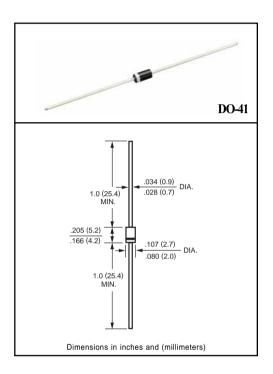
* Lead: MIL-STD-202E method 208C guaranteed

* Mounting position: Any

* Weight: 0.35 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	HER101G	HER102G	HER103G	HER104G	HER105G	HER106G	HER107G	HER108G	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	1.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30						Amps		
Typical Junction Capacitance (Note 2)	CJ	15 12					pF			
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥С		

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

CHARACTERISTICS	SYMBOL	HER101G HER102G HER103G	HER104G HER105G	HER106G HER107G HE	R108G UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.0	1.3	1.70	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta = 25°C	la la	5.0				
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C	─ IR	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 (HER101G THRU HER108G)

