



HIGH EFFICIENCY RECTIFIER

HER201 THRU HER208

VOLTAGE RANGE
CURRENT

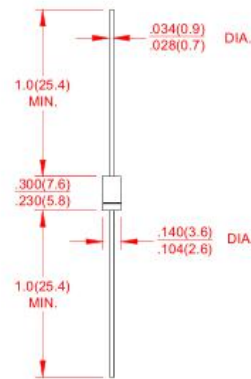
50 to 1000 Volts
2.0Ampere

FEATURES

- Low coat 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: 0.014ounce, 0.39 grams



DO-15

Dimensions in inches and (millimeters)

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%

		SYMBOLS	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	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	700	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 °C		I _(AV)	2.0								Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	60								Amps
Maximum Instantaneous Forward Voltage @ 1.5A		V _F	1.0			1.3		1.5	1.7		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C	I _R	5.0								μA
	T _A = 125 °C		250								
Maximum Full Load Recovery Current,full cycle average 0.375"(9.5mm)lead length at TL=55 °C		IR _(AV)	100								μA
Maximum Reverse Recovery Time(NOTE 1)		trr	50					75			ns
Typical Thermal Resistance (NOTE 2)		C _J	30					20			PF
Typical Thermal Resistance(NOTE 3)		R _{θJA}	40								°C/W
Operating Junction Temperature Range		T _J , T _{STG}	(-55 to +150)								°C

Notes:

1. Test Condition: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $IRR = 0.25\text{A}$
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.



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