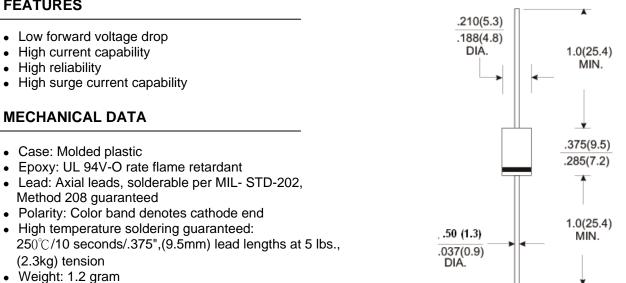


3 A High Efficiency Rectifiers HER301 THRU HER308 50 to 1000 V 3.0 A

DO-201AD

Dimensions in inches and (millimeters)

FEATURES



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 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Units
Maximum Recurrent 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. 375" (9.5mm) Lead Length @ $T_A = 55$ °C	I(AV)	3.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	150								Amp
Maximum instantaneous Forward Voltage @3.0A	VF	1.0				1.3	1.75			Volts
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	I _R	10.0 100								uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	50 75							nS	
Typical Junction Capacitance (Note2)	CJ	80 50							pF	
Operating Temperature Range	ТJ	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

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.



RATINGS AND CHARACTERISTIC CURVES (HER301 THRU HER308)

