

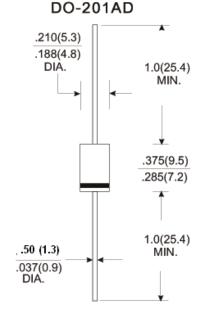
3 A High Efficiency Rectifiers HER301G THRU HER308G 50 to 1000 V 3.0 A

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: 1.2 gram



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 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	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)	I _{FSM}	150								Amp
Maximum instantaneous Forward Voltage @3.0A	V _F	1.0				1.3	1.75			Volts
Maximum Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	10.0 100								uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	50 75						nS		
Typical Junction Capacitance (Note2)	CJ	80					50			
Operating Temperature Range	TJ	-55 to +150								$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T _{STG}	-55 to +150								$^{\circ}$ C

NOTES:

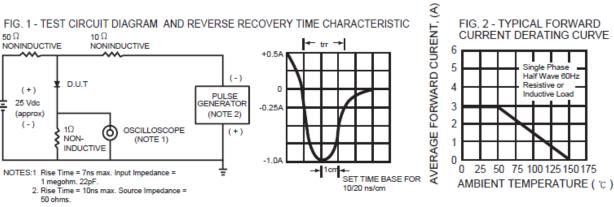
- 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A
- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



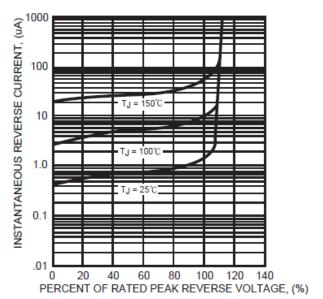
3 A High Efficiency Rectifiers HER301G THRU HER308G 50 to 1000 V 3.0 A

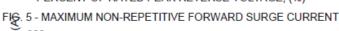
RATINGS AND CHARACTERISTIC CURVES (HER301G THRU HER308G)

RATING AND CHARACTERISTIC CURVES (HER301G THRU HER308G)









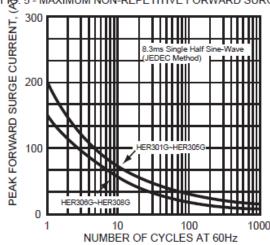


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

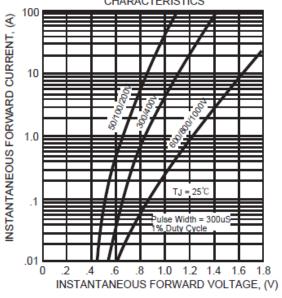


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

