



HER301G THRU HER308G

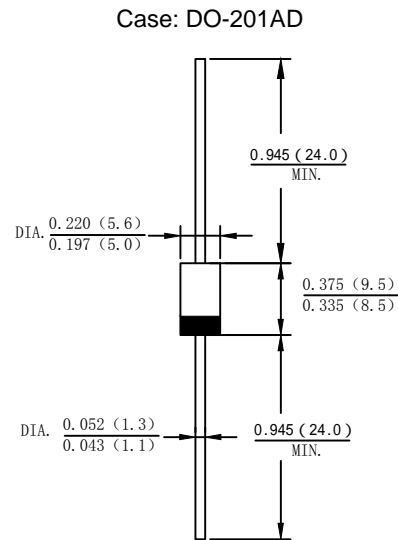
3.0 AMP. Glass High Efficient Rectifiers

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load derate current by 20%

Type Number	SYMBOL	HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	630	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@T _L =100°C	I _{F(AV)}	3.0								A
Non-Repetitive Peak Forward Surge @T _j =25 °C Current 8.3ms Single half sine-wave@T _j =125 °C Superimposed On Rated Load (JEDEC Method)	I _{FSM}	125 100								A
Non-Repetitive Peak Forward Surge @T _j =25 °C Current 1.0ms Single half sine-wave @T _j =125°C Superimposed On Rated Load (JEDEC Method)	I _{FSM}	250 200								A
10000 times of the wave surge current (time width 1ms, time interval 3s)	I _{FSM}	93.75								A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	64.84								A ² s
Forward Voltage @IF=3.0A	V _{FM}	1.0			1.3		1.7			V
Peak Reverse Current @T _A =25°C	I _R	5.0								uA
At Rated DC Blocking Voltage @T _A =125°C		100								
Maximum Reverse Recovery Time(Note 1)	T _{rr}	50					75			ns
Typical Junction Capacitance (Note 2)	C _J	50					20			pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	65								°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150								°C

Note: 1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig. 1 Forward Current Derating Curve

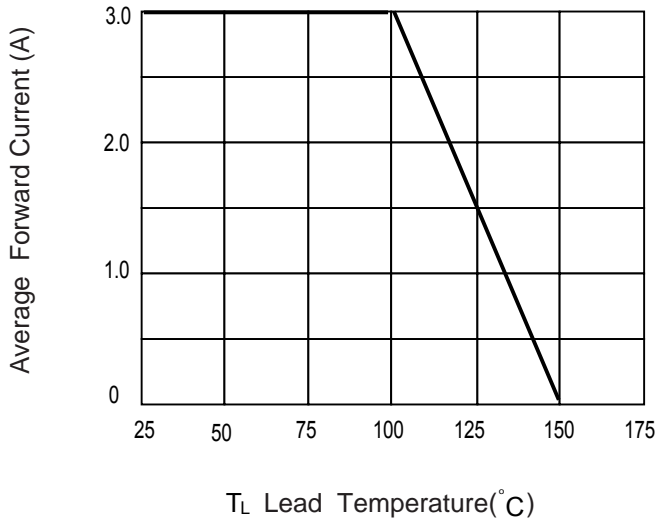


Fig. 2 Typ. Forward Characteristics

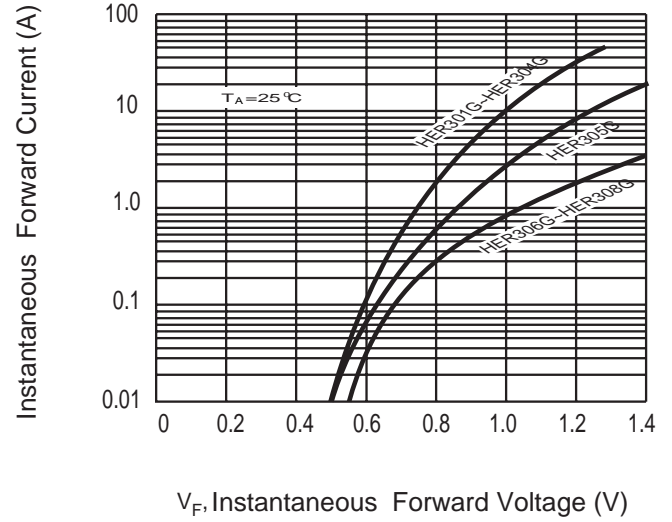


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

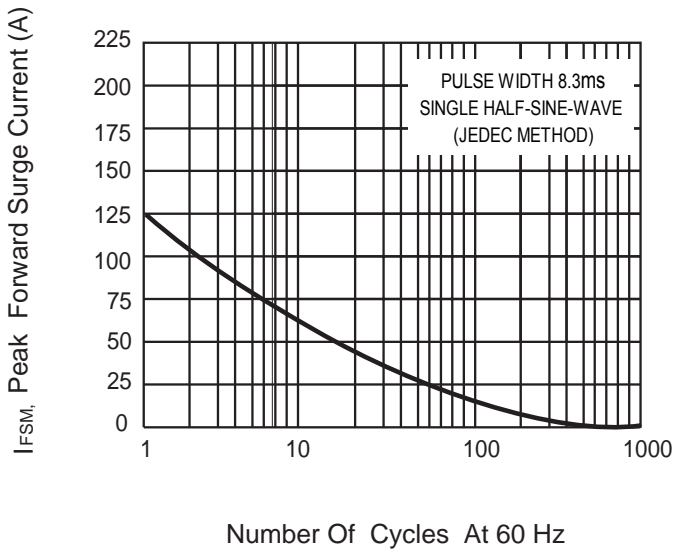
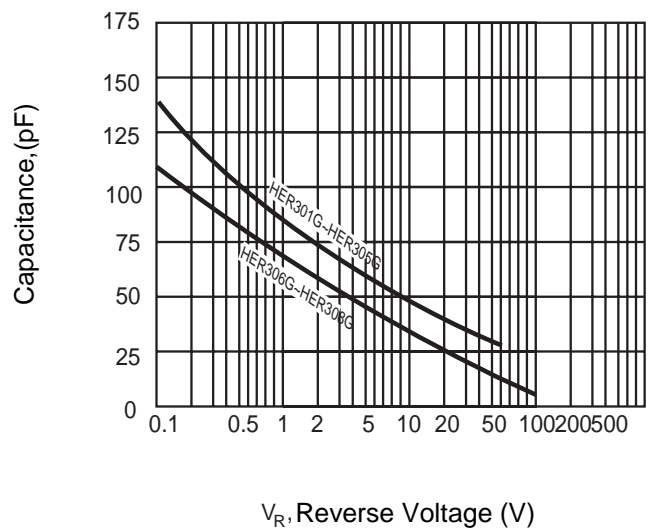


Fig.4 Typical Junction Capacitance





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