

HER501G THRU HER508G

5.0 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 dentes cathode end
- Mounting Position: Any
- Making: Type Number
- · Lead Free: For RoHS/Lead Free Version

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

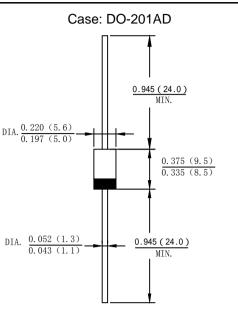
Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	HER 501G	HER 502G	HER 503G	HER 504G	HER 505G	HER 506G	HER 507G	HER 508G	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	630	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@T∟=100℃	IF(AV)	5.0								А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	150								А
I ² t Rating for Fusing (t < 8.3ms)	²t	93.375								A ² s
Forward Voltage @IF=5.0A	Vfm	1.0 1.3 1.7						V		
Peak Reverse Current @T _A =25°C	5.0								uA	
At Rated DC Blocking Voltage @T _A =125°C	IR	100								uA
Typical Junction Capacitance (Note 1)	CJ	50 60						pF		
Typical Thermal Resistance Junction to Ambient	Reja	65								°C/W
Maximum Reverse Recovery Time(Note 2)	Trr	50 75							ns	
Operating Temperature Range	TJ	-55 to +150								°C
/Storage Temperature Range	Тѕтс	-55 to +150								°C

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A



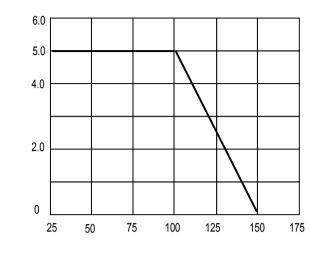
Dimensions in inches and (millimeters)



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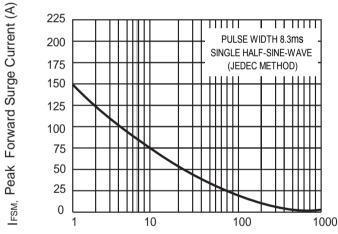
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Fig. 1 Forward Current Derating Curve



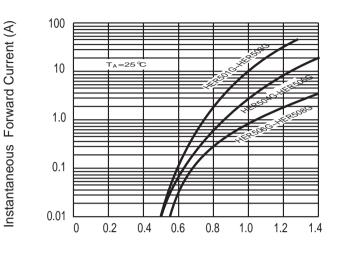
T_L Lead Temperature(°C)

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



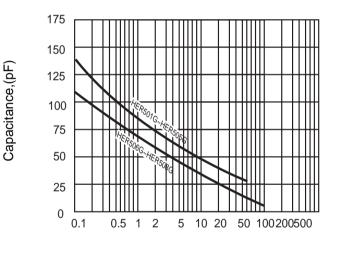
Number Of Cycles At 60 Hz

Fig. 2 Typ. Forward Characteristics



 V_{F} , Instantaneous Forward Voltage (V)

Fig.4 Typical Junction Capacitance



 V_{R} , Reverse Voltage (V)



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