

HER501G-HER508G

HIGH EFFICIENCY RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristics	Symbol	HER								Units
		501G	502G	503G	504G	505G	506G	507G	508G	
Maximum Forward Rectified Current T _A = 50°C	I _O	5.0								A
Maximum Forward Surge Current	I _{FSM}	200								A
Maximum Reverse Current V _R = V _{RRM} , T _J = 25°C V _R = V _{RRM} , T _J = 125°C	I _R	5.0 100								μA
Typical Junction Capacitance f = 1MHz and applied 4V DC Reverse Voltage	C _J	75								pF
Storage Temperature Range	T _{STG}	-65 to +175								°C
Operating Temperature Range	T _J	-55 to +150								°C
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Continuous Reverse Voltage	V _R	50	100	200	300	400	600	800	1000	V
Maximum Forward Voltage @ I _F = 1.5A	V _F	1.0	1.0	1.0	1.3	1.3	1.85	1.85	1.85	V
Maximum Reverse Recovery Time ⁽¹⁾	t _{rr}	50	50	50	50	50	75	75	75	ns

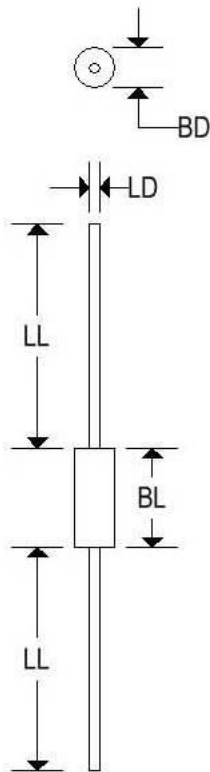
Note 1: Reverse recovery time test condition, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

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MECHANICAL CHARACTERISTICS

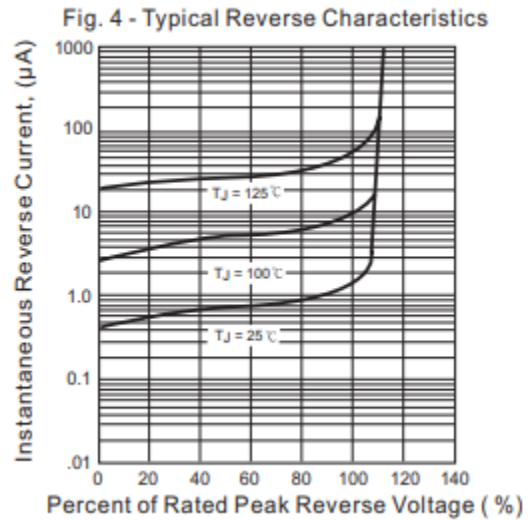
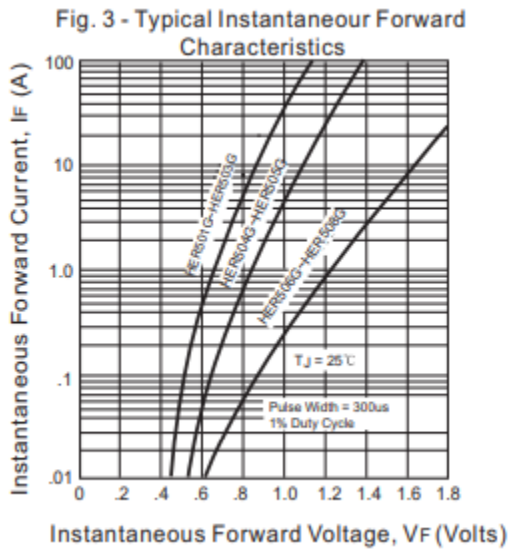
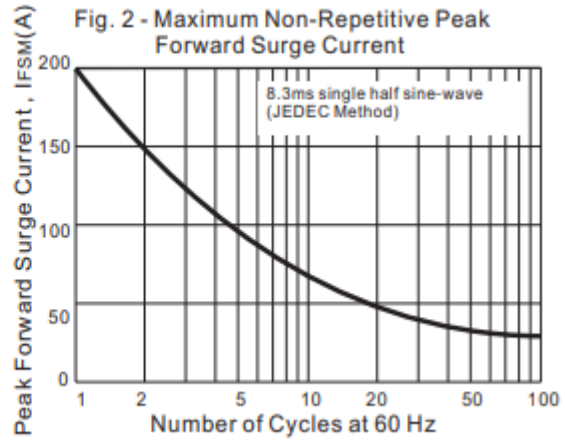
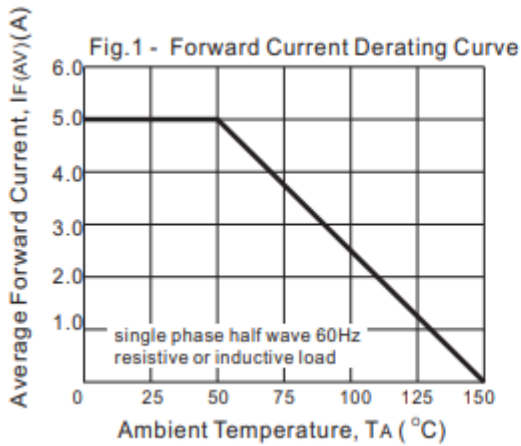
Case:	DO-201AD
Marking:	Alpha-numeric
Polarity:	Cathode band



	DO-201AD			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.190	0.209	4.826	5.309
BL	0.285	0.375	7.240	9.530
LD	0.048	0.052	1.219	1.321
LL	1.000	-	25.400	-

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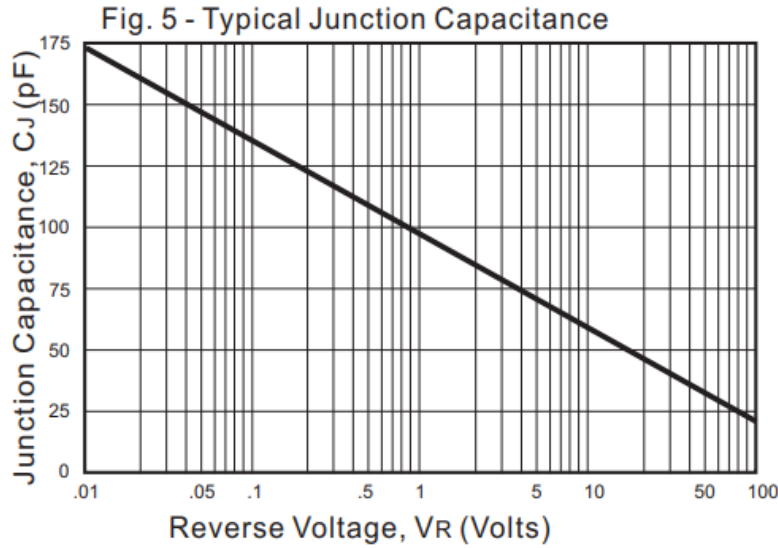


Fig. 6 - Test Circuit Diagram and Reverse Recovery Time Characteristic

