

# HER201G-HER208G

## 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<sub>A</sub> = 25°C unless otherwise noted)

Characteristics	Symbol	HER								Units
		201G	202G	203G	204G	205G	206G	207G	208G	
Maximum Forward Rectified Current T <sub>A</sub> = 50°C	I <sub>O</sub>	2.0								A
Maximum Forward Surge Current	I <sub>FSM</sub>	60								A
Maximum Reverse Current V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 25°C V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 125°C	I <sub>R</sub>	5.0 150								μA
Typical Junction Capacitance f = 1MHz and applied 4V DC Reverse Voltage	C <sub>J</sub>	30								pF
Storage Temperature Range	T <sub>STG</sub>	-65 to +175								°C
Operating Temperature Range	T <sub>J</sub>	-55 to +150								°C
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	1000	V
RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	V
Continuous Reverse Voltage	V <sub>R</sub>	50	100	200	300	400	600	800	1000	V
Maximum Forward Voltage @ I <sub>F</sub> = 1.5A	V <sub>F</sub>	1.0	1.0	1.0	1.3	1.3	1.85	1.85	1.85	V
Maximum Reverse Recovery Time <sup>(1)</sup>	t <sub>rr</sub>	50	50	50	50	50	75	75	75	ns

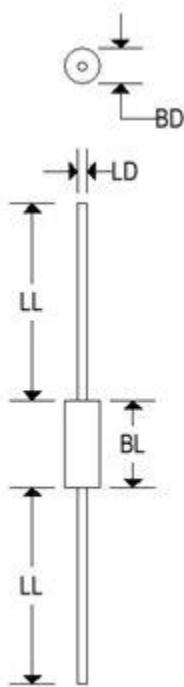
Note 1: Reverse recovery time test condition, I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A

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### MECHANICAL CHARACTERISTICS

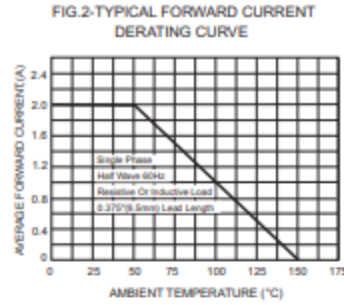
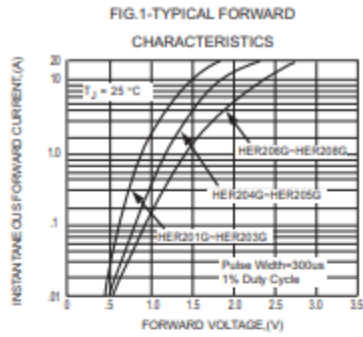
Case:	DO-15
Marking:	Alpha-numeric
Polarity:	Cathode band



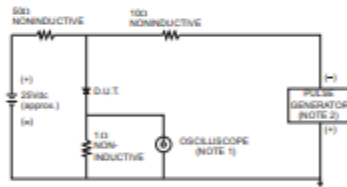
	DO-15			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.100	0.140	2.540	3.556
BL	0.200	0.300	5.080	7.620
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-

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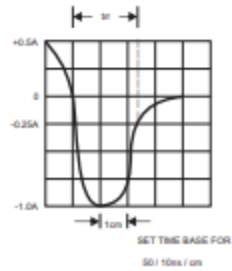
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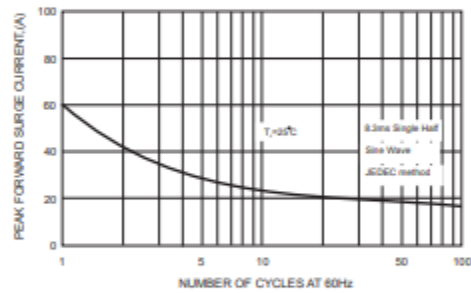
**FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS**



NOTES: 1. Rise Time = 7ns max., Input Impedance = 1 megohm, 22pF.  
2. Rise Time = 10ns max., Source Impedance = 50 ohms.



**FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

