



2.0 AMP HIGH EFFICIENCY RECTIFIERS

<h3 style="margin-top: 10px;">FEATURES</h3> <ul style="list-style-type: none"> <li>* Low forward voltage drop</li> <li>* High current capability</li> <li>* High reliability</li> <li>* High surge current capability</li> <li>* High speed switching</li> </ul> <h3 style="margin-top: 10px;">MECHANICAL DATA</h3> <ul style="list-style-type: none"> <li>* Case: Molded plastic</li> <li>* Epoxy: UL 94V-0 rate flame retardant</li> <li>* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed</li> <li>* Polarity: Color band denotes cathode end</li> <li>* Mounting position: Any</li> <li>* Weight: 0.40 grams</li> <li>* Both normal and Pb free product are available:</li> <li>* Normal: 80~95%Sn, 5~20%Pb</li> <li>* Pb free: 99 Sn above can meet Rohs environment substance directive request</li> </ul>	<h3 style="text-align: center;">VOLTAGE RANGE</h3> <p style="text-align: center;">50 to 1000 Volts</p> <h3 style="text-align: center;">CURRENT</h3> <p style="text-align: center;">2.0 Amperes</p> <div style="text-align: center; margin-top: 20px;"> <p style="font-size: small;">Dimensions in inches and (millimeters)</p> </div>
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## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	HER201	HER202	HER203	HER204	HER205	HER206	HER207	HER208	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current										
.375"(9.5mm) Lead Length at Ta=50°C									2.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)									60	A
Maximum Instantaneous Forward Voltage at 2.0A	1.0		1.3		1.70				V	
Maximum DC Reverse Current Ta=25°C									5.0	µA
at Rated DC Blocking Voltage Ta=100°C									150	µA
Maximum Reverse Recovery Time (Note 1)	50				75				nS	
Typical Junction Capacitance (Note 2)									30	pF
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>STG</sub>									-65 — +150	°C

**NOTES:**

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



RATING AND CHARACTERISTIC CURVES (HER201 THRU HER208)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

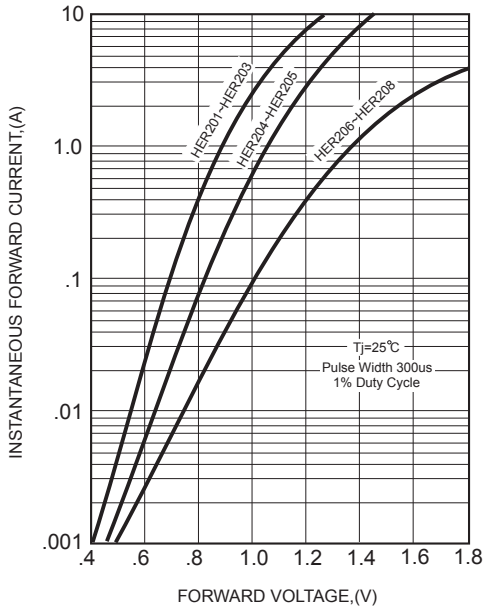


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

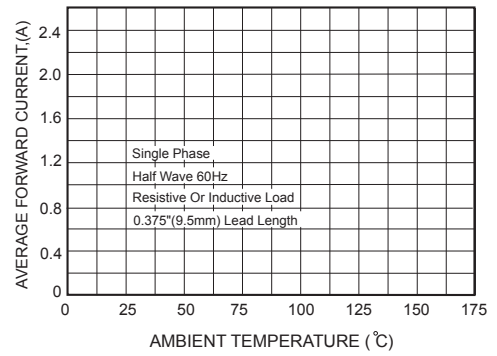


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

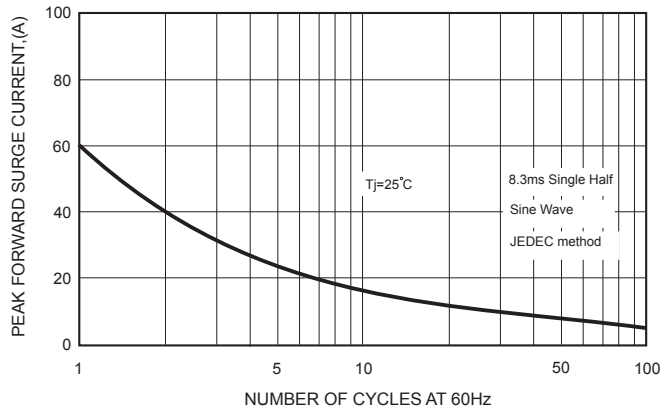
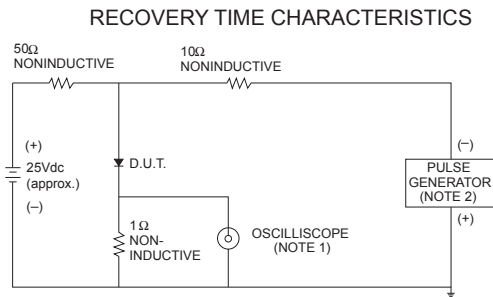


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

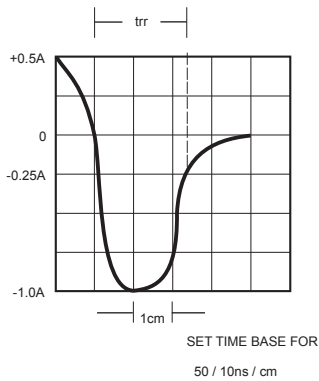
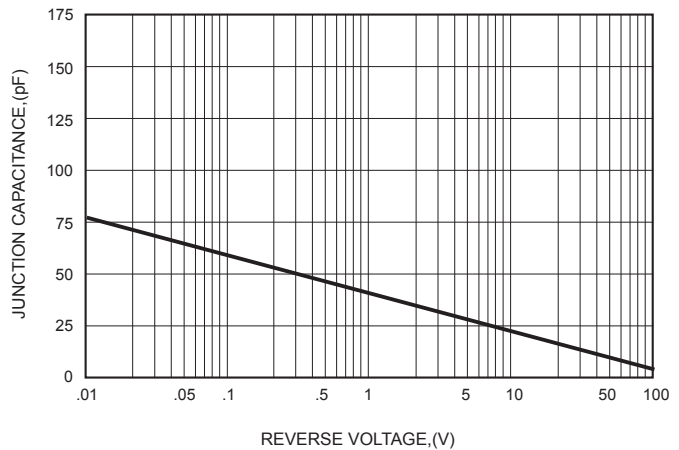


FIG.5-TYPICAL JUNCTION CAPACITANCE



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