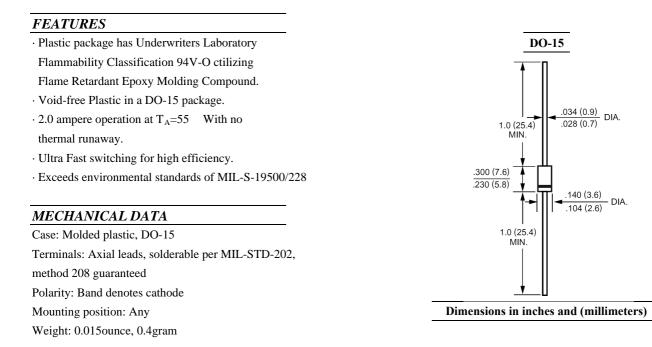
HER201 THRU HER208

HIGH EFFICIENCY RECTIFIER	
	-

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 2.0 AMPERE

http://www.njzrg.com



Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	HER201	HER202	HER203	HER204	HER205	HER206	HER207	HER208	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	т	2.0								
.375"(9.5mm) Lead Length at T _A =55	I _(AV)									Amp
Peak Forward Surge Current,										
8.3ms single half-sine-wave	I _{FSM}	60							Amp	
superimposed on rated load (JEDEC method)										
Maximum Forward Voltage at 2.0A and T _A =25	V _F		1.0		1.3		1.7			Volts
Maximum Reverse Current at T _J =25	т	5.0								uAmp
at Rated DC Blocking Voltage T _J =100	I _R	500								
Typical Junction Capacitance (Note 1)	CJ	35							pF	
Maximum Reverse Recovery Time (Note 2)	T _{RR}	50 75						nS		
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	45							/ W	
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150								

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Reverse Recovery Test Conditions : $I_{F} {=} .5 A$, $I_{R} {=} 1 A$, $I_{RR} {=} .25 A.$

3- Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length P.C.B. Mounted.



RATINGS AND CHARACTERISTIC CURVES

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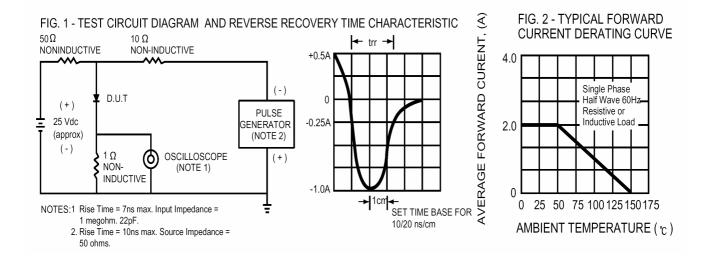
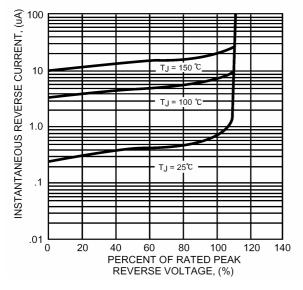
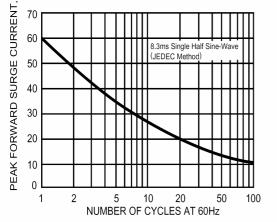


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



€ IG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



CHARACTERISTICS

.8

.001

0

.2

.4

.6

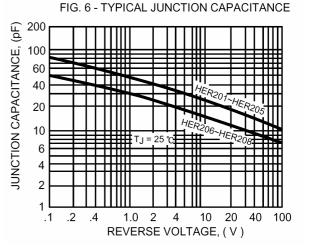
FIG. 4 - TYPICAL INSTANTANEOUS FORWARD

INSTANTANEOUS FORWARD VOLTAGE, (V)

1.0 1.2 1.4

1.6

1.8



ELECTRONICS

GROWCHIL