

HIGH EFFICIENCY RECTIFIER

HER201 THRU HER208

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.0 Ampere

FEATURES

- Low power loss, high efficiency
- Low Leakage
- High speed switching
- High Surge Capacity
- High Temperature soldering guaranteed: 260 °C / 10 second, 0.375" (9.5mm) lead length

MECHANICAL DATA

Case: Transfer molded plastic

• Epoxy: UL94V – 0 rate flame retardant

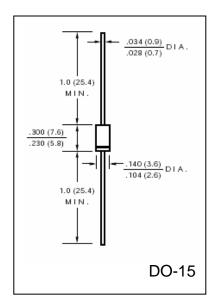
• Polarity: Color Band denotes cathode end

• Lead: Plated axial lead, solderable per MIL – STD-202E

method 208C

Mounting Position: Any

Weight: 0.014 ounce, 0.39 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

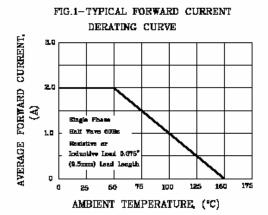
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

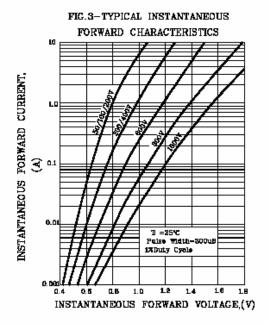
	SYMBOLS	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length at $T_A = 50^{\circ}$ C	$I_{(AV)}$	2.0								Amps
Peak Forward Surge Current										
8.3mS single half sine wave superimposed on	I_{FSM}	60							Amps	
rated load (JEDEC method)										
Maximum Instantaneous Forward Voltage @ 2.0A	V_{F}	1.0		1	.3	1.5	1.7		Volts	
Maximum DC Reverse Current at Rated $T_A = 25$ °C	т	5.0								μА
DC Blocking Voltage per element $T_A = 125$ °C	I_R 250									
Maximum Full Load Reverse Current, Full Cycle average 0.375 " (9.5mm) lead length at $T_L = 55$ °C	$I_{R(AV)}$	100								μΑ
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$	t_{rr}	50 70						nS		
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	30 20						pF		
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40								^o C/W
Operating Junction Temperature Range	T_{J}	(-55 to +150)								°C
Storage Temperature Range	T_{STG}	(-55 to +150)								^o C

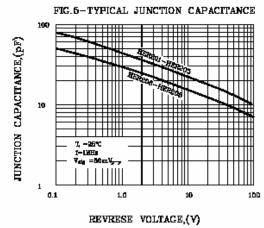
Notes:

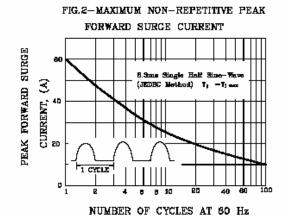
1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

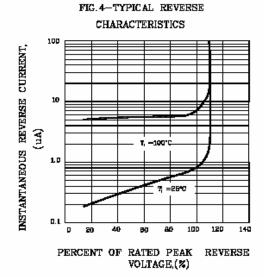
RATINGS AND CHARACTERISTIC CURVES HER201 THRU HER208

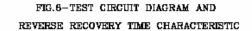


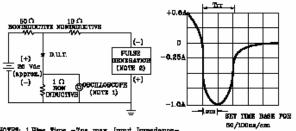












NOTES: 1.Rine Time =7ns max input impedance= 1 magelon. 82pF

E.Rim time=10m max. Source Impedance