

HIGH EFFICIENCY RECTIFIER

HER101	THRU	HER108	VOLTAGE RANGE	50 to 1000 Volts		
			CURRENT	1.0 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: 0.012 ounce, 0.33 gram

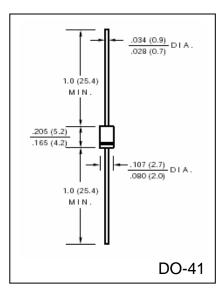
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- 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 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	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)	1.0								Amps
Peak Forward Surge Current										
8.3mS single half sine wave superimposed on	I _{FSM}	I _{FSM} 30								Amps
rated load (JEDEC method)										
Maximum Instantaneous Forward Voltage @ 1.0A	V _F		1.0 1.3 1.5 1.7			.7	Volts			
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{\circ}C$	т	5.0								μΑ
DC Blocking Voltage per element $T_A = 125 \ ^{\circ}C$	I _R	250								
Maximum Full Load Reverse Current, Full Cycle average 0.375° (9.5mm) lead length at T _L = 55 ^o 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							0	nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	15 12						2	pF	
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	60								^o C/W
Operating Junction Temperature Range	TJ	(-55 to +150)								°C
Storage Temperature Range	T _{STG}	(-55 to +150)								°C

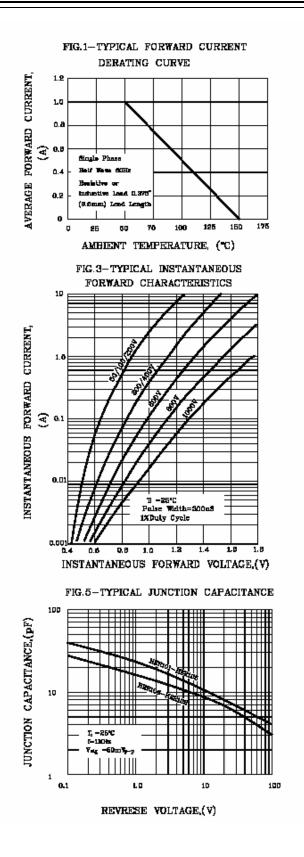
Notes:

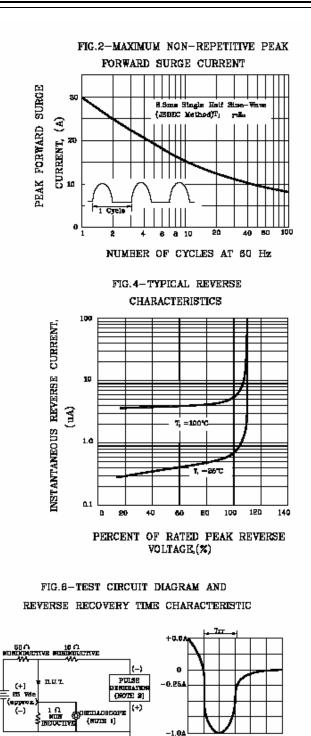
1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted





RATINGS AND CHARACTERISTIC CURVES HER101 THRU HER108





1.Rise Time = 7ns max. Input impeda 1 megohm. S2pP

BET

THE BASE FOR 60/100cm/am

2. Rise time=10ns max. Source Impedance= 50 nhmm