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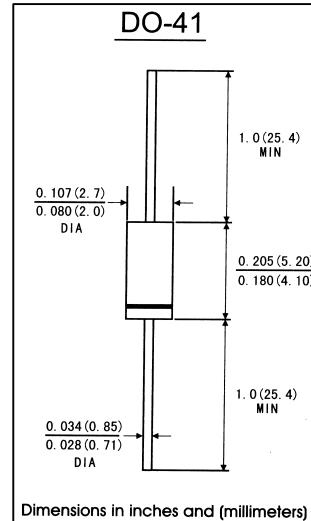
CHENYI ELECTRONICS

HER101 THRU HER108**HIGH EFFICIENCY RECTIFIER****Reverse Voltage - 50 to 1000 Volts****Forward Current - 1.0Amperes****FEATURES**

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Low forward voltage drop
- . High current capability
- . High reliability
- . Low power loss, high efficiency
- . High surge current capability
- . High speed switching
- . Low leakage

MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Epoxy:** UL94V-0 rate flame retardant
- . **Lead:** plated axial leads, solderable per MIL-STD-750, method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.012 ounce, 0.33 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

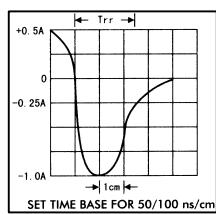
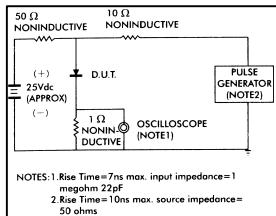
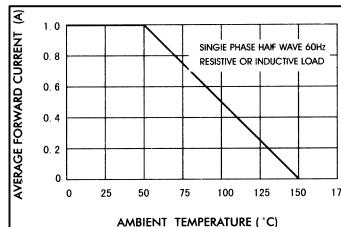
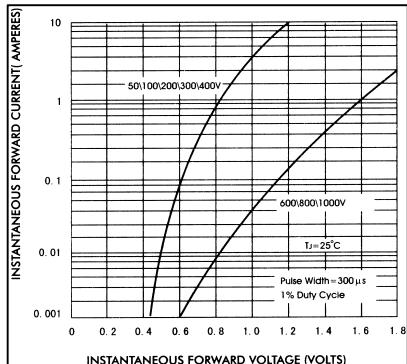
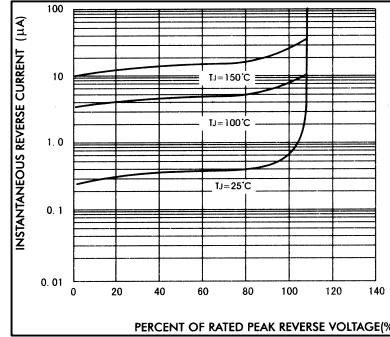
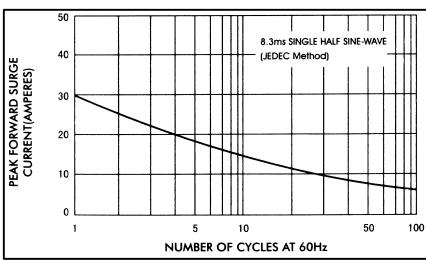
(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive)

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	Units				
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°C	I _(AV)	1.0						Amp						
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I _{FSM}	30.0						Amps						
Maximum instantaneous forward voltage at 1.0 A	V _F	1.0		1.3		1.7		Volts						
Maximum DC Reverse Current at rated DC blocking voltage	I _R	5.0						μA						
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at T _L =55°C		100												
Maximum reverse recovery time (Note 1)	T _{rr}	50			70			ns						
Typical junction Capacitance (Note 2)	C _J	15			12			pF						
Operating and storage temperature range	T _J T _{STG}	-65 to +150						°C						

Notes: 1. Test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0V Volts

RATINGS AND CHARACTERISTIC CURVES HER101 THRU HER108**FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC****FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE****FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS****FIG.4-TYPICAL REVERSE CHARACTERISTICS****FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT****FIG.6-TYPICAL JUNCTION CAPACITANCE**