



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

**GLASS PASSIVATED
HIGH EFFICIENCY RECTIFIER
VOLTAGE RANGE 50 - 1000 Volts CURRENT 6.0 Amperes**

**HER601GPT
THRU
HER608GPT**

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss, high efficiency
- * Low leakage
- * High current capability
- * High speed switching
- * High current surge
- * High reliability
- * Glass passivated junction
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band

Weight: 1.20 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

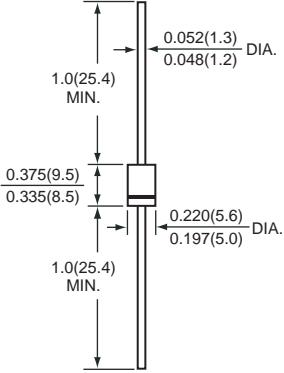
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



DO-201AD



Dimensions in inches and (millimeters)

DO-201AD

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	HER601GPT	HER602GPT	HER603GPT	HER604GPT	HER605GPT	HER606GPT	HER607GPT	HER608GPT	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 at TA = 50°C	I _O									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}									Amps
Typical Junction Capacitance (Note 1)	C _J				100			65		pF
Operating and Storage Temperature Range	T _J , T _{STG}					-65 to +175				°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	HER601GPT	HER602GPT	HER603GPT	HER604GPT	HER605GPT	HER606GPT	HER607GPT	HER608GPT	UNITS
Maximum Instantaneous Forward Voltage at 6.0 A DC	V _F		1.0		1.3		1.70			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage at TA = 25°C	I _R				10					uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at T _L = 55°C					150					uAmps
Maximum Reverse Recovery Time (Note 2)	t _{rr}				50		70			nSec

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2. Test Conditions : I_F = 0.5 A, I_R = -1.0 A, I_{RR} = -0.25 A

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RATING CHARACTERISTIC CURVES (HER601GPT THRU HER608GPT)

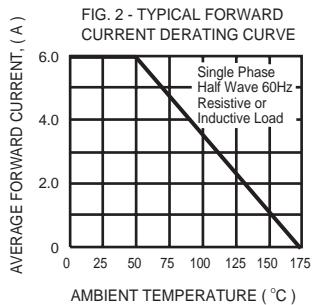
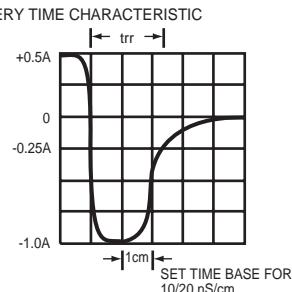
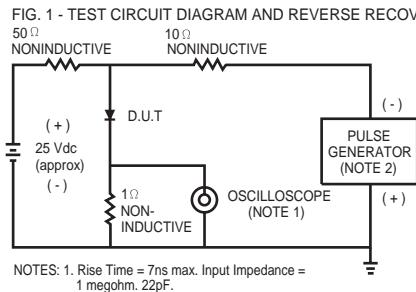


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

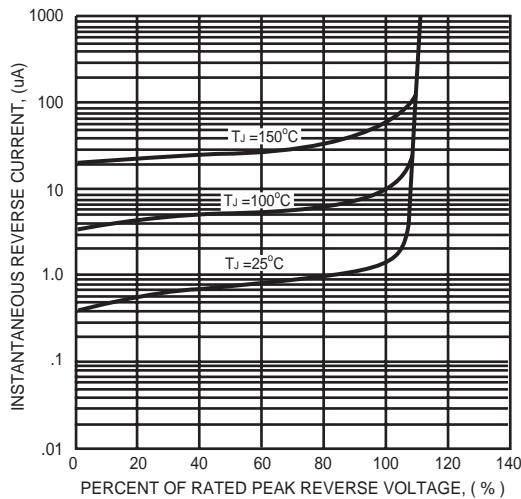


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

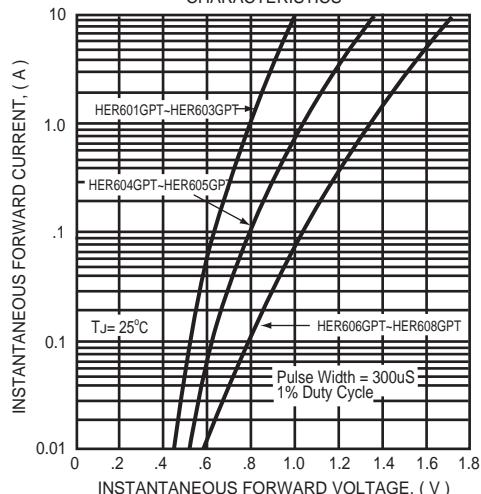


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

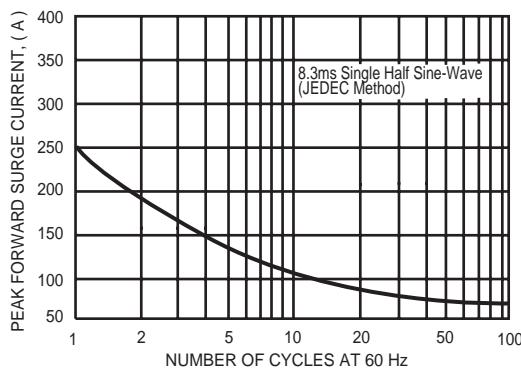


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

