



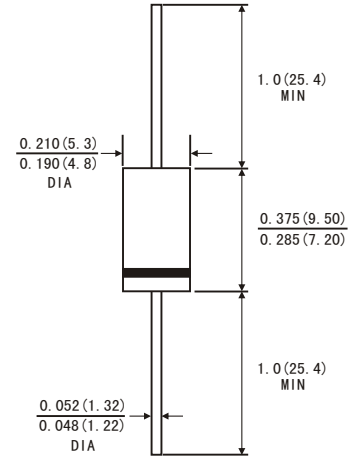
FEATURES

- 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
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDED DO-201AD 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: 0.042ounce, 1.19 grams

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 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 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	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 0.375"(9.5mm)lead length at T _A =55°C		I _(AV)	3.0								AmpS
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	150.0								Amps
Maximum Instantaneous Forward Voltage at 3.0 A		V _F	1.0			1.3		1.7			Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25 °C	I _R	10.0								μA
	T _A =100 °C		150								
Maximum reverse recovery time(Note1)		T _{rr}	50					75		ns	
Typical junction capacitance(Note2)		C _J	70					50		pF	
Operating junction and storage temperature range		T _J T _{STG}	-65 to+150								°C

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

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



星合电子
XINGHE ELECTRONICS

HER301 THRU HER308

HIGH EFFICIENCY RECTIFIER
Reverse Voltage: 50 to 1000 Volts
Forward Current: 3.0 Amperes

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

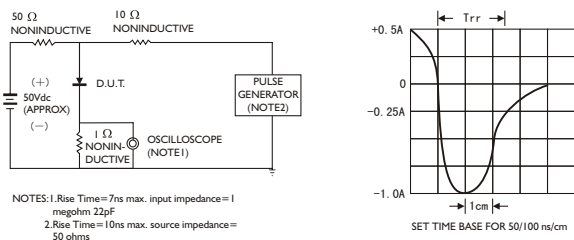


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

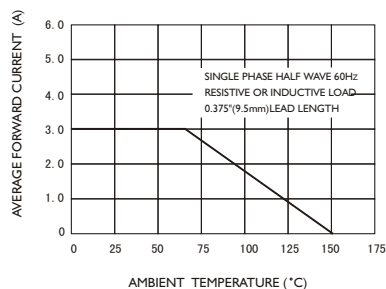


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

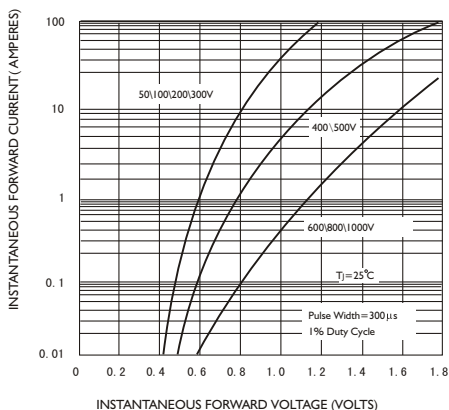


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

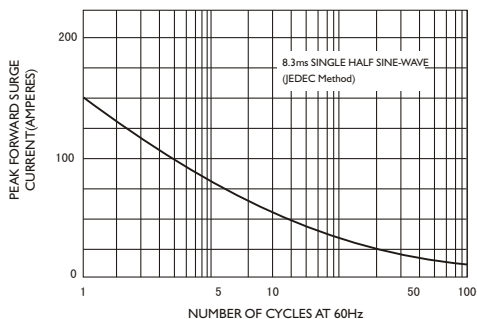


FIG.4-TYPICAL REVERSE CHARACTERISTICS

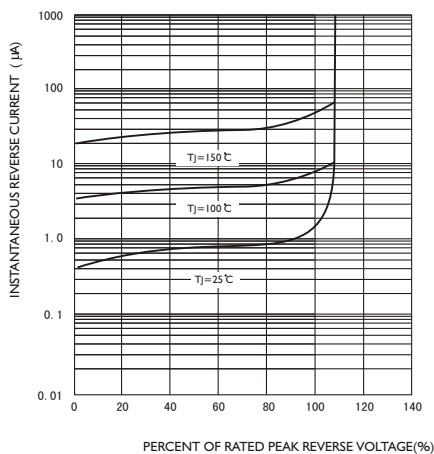


FIG.6-TYPICAL JUNCTION CAPACITANCE

