



# HER301/UF5400 THRU HER308/UF5408

## 3.0 AMPS. HIGH EFFICIENT RECTIFIERS

Voltage Range  
50 to 1000 Volts  
Current  
3.0 Amperes

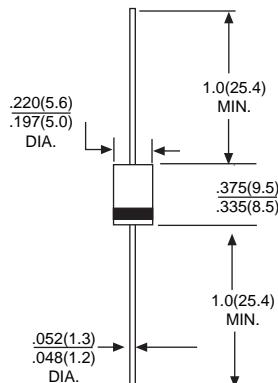
### Features

- \*Low forward voltage drop
- \*High current capability
- \*High reliability
- \*High surge current capability

### Mechanical Data

- \*Cases:Molded plastic
- \*Epoxy:UL 94V-O rate flame retardant
- \*Lead:Axial leads,solderable per MIL-STD-202,Method 208 guaranteed
- \*Polarity:Color band denotes cathode end
- \*High temperature soldering guaranteed:  
250°C/10 seconds/.375",(.95mm) lead lengths at 5 lbs.,(2.3kg) tension
- \*Weight:1.2 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%

Type Number		HER301 UF5400	HER302 UF5401	HER303 UF5402	HER304 UF5403	HER305 UF5404	HER306 UF5406	HER307 UF5407	HER308 UF5408	UNITS
Maximum Repetitive Peak Reverse Voltage	VR <sub>RM</sub>	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	VR <sub>RMS</sub>	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA = 55°C	I <sub>F(AV)</sub>						3.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>					150				A
Maximum Instantaneous Forward Voltage @3.0A	V <sub>F</sub>		1.0			1.3		1.7		V
Maximum DC Reverse Current @ TA = 25°C at Rated DC Blocking Voltage @ TA = 100°C	I <sub>R</sub>				10.0	200				uA uA
Maximum Reverse Recovery Time (Note 1)	T <sub>RR</sub>		50				75			nS
Typical Junction Capacitance (Note 2)	C <sub>J</sub>		80				50			pF
Operating Temperature Range	T <sub>J</sub>			-55 to+125						°C
Storage Temperature Range	T <sub>STG</sub>			-55 to+150						°C

NOTES: 1. Reverse Recovery Test Conditions: I<sub>f</sub>=0.5A,I<sub>R</sub>=1.0A,I<sub>RR</sub>=0.25A

2.Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

# RATING AND CHARACTERISTIC CURVES

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

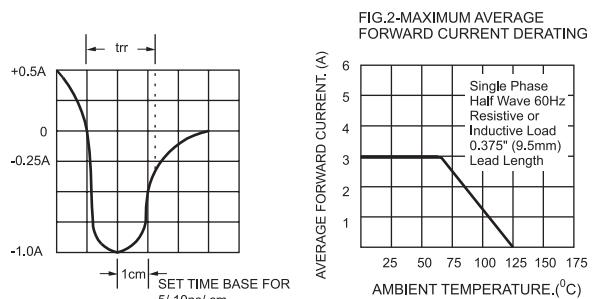
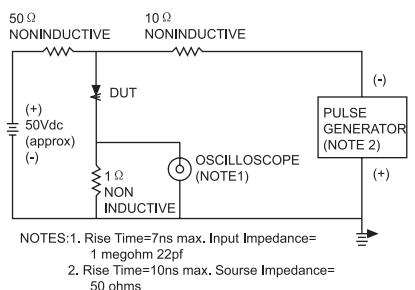


FIG.3-TYPICAL REVERSE CHARACTERISTICS

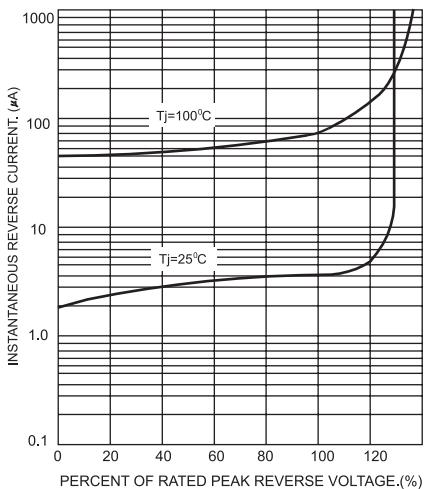


FIG.5-TYPICAL FORWARD CHARACTERISTICS

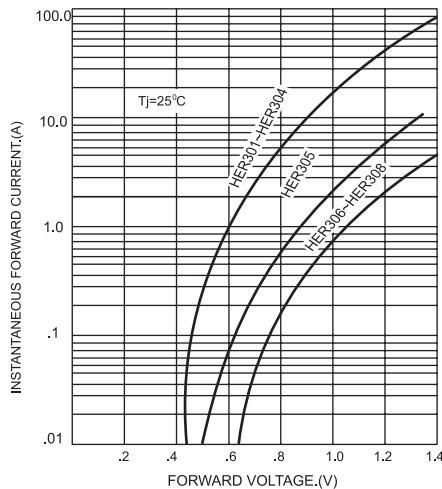


FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

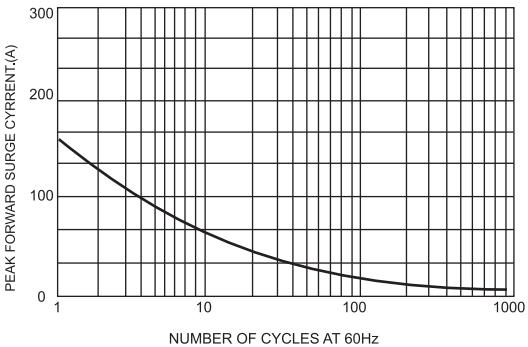


FIG.6-TYPICAL JUNCTION CHARACTERISTICS

