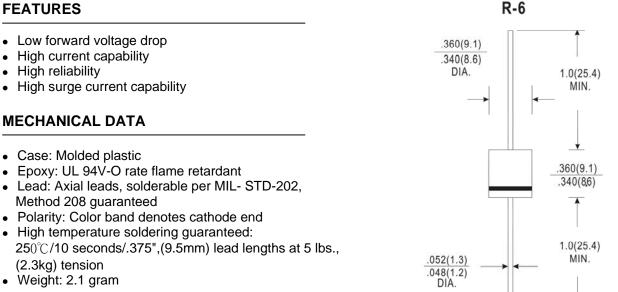


## **6 A High Efficiency Rectifiers** HER601 THRU HER606 50 to 600 V 6.0 A

### **FEATURES**



# **Maximum Ratings and Electrical Characteristics**

Dimensions in inches and (millimeters)

Rating 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%

Type Number	Symbols	HER601	HER602	HER603	HER604	HER605	HER606	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current. 375" (9.5mm) Lead Length @ $T_A$ =55 $^{\circ}C$	I <sub>(AV)</sub>	6.0						Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	200						Amp
Maximum instantaneous Forward Voltage @6.0A	VF	1.0 1.3 1.75					Volts	
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	IR	10.0 200						uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	50 75						nS
Typical Junction Capacitance (Note2)	CJ	100 65						pF
Operating Temperature Range	ТJ	-55 to + 150						°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C

#### NOTES:

1. Reverse Recovery Test Conditions: IF =0.5A, IR=1.0A, IRR =0.25A

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



# **RATINGS AND CHARACTERISTIC CURVES (HER601 THRU HER606)**

