646-738 to 763

HER101 THRU HER107

1.0 AMP. HIGH EFFICIENCY RECTIFIERS

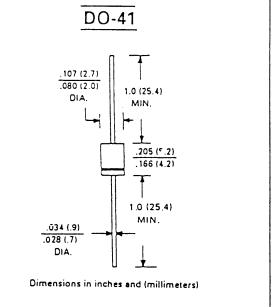
FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic DO-41
- * Epoxy: UL 94V-0 rate flame retardant
- ad: 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", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- * Weight: 0.34 grams

VOLTAGE RANGE 50 to 800 Volts CURRENT 1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

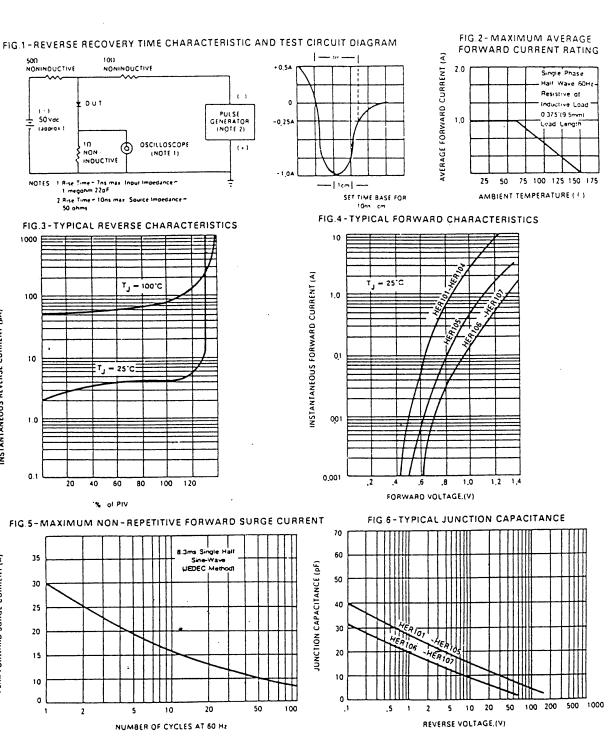
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

TYPE NUMBER	HER101	HER102	HER103	HER104	HER105	HER106	HER107	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	٧
Maximum RMS Voltage	35	70	140	210	280	420	560	٧
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	٧
Maximum Average Forward Rectified Current .375* (9.5mm) lead length @ T _A =55°C	1.0						А	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30						А	
Maximum Instantaneous Forward Voltage at 1.0A	1.0 1.3				1.7		V	
Maximum D.C Reverse Current @ T _A =25°C at Rated D.C Blocking Voltage @ T _A =100°C	5.0 100						μΑ μΑ	
Maximum Reverse Recovery Time (Note 1)	50 75					5	nS	
Typical Junction Capacitance (Note 2)	20 15					5	ρF	
Operating and Storage Temperature Range T _i , T _{STG}	-65 to +125 -65 to +150					0		

- 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 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (HER101 THRU HER107)



INSTANTANEOUS REVERSE CURRENT (µA)

PEAK FORWARD SURGE CURRENT (A)