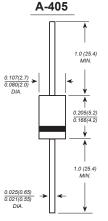


HER101S THRU HER108S

HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-405 molded plastic body

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

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

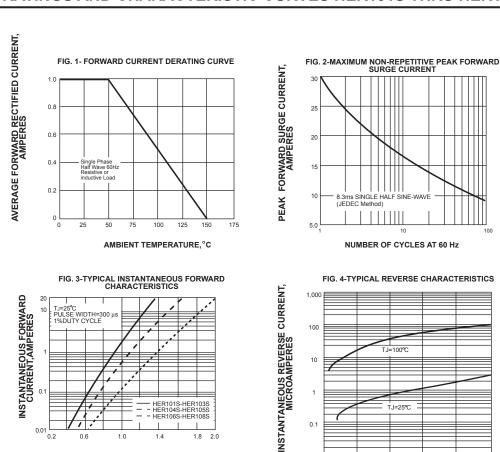
	SYMBOLS	HER 101S	HER 102S	HER 103S	HER 104S	HER 105S	HER 106S	HER 107S	HER 108S	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current	I _(AV)	1.0								Amps
0.375″(9.5mm) lead length at Ta=50°C										· .
Peak forward surge current		I _{FSM} 30.0								
8.3ms single half sine-wave superimposed on	IFSM								Amps	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.0A	VF	1.0		1.3		1.70			Volts	
Maximum DC reverse current Ta=25℃			5.0							^
at rated DC blocking voltage Ta=100℃	lR	100.0							μΑ	
Maximum reverse recovery time (NOTE 1)	trr	50				70			ns	
Typical junction capacitance (NOTE 2)	Cı	15.0				12.0		pF		
Typical thermal resistance (NOTE 3)	Reja		50.0					°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C	

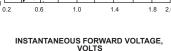
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

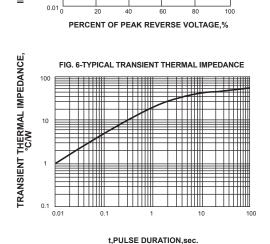
RATINGS AND CHARACTERISTIC CURVES HER101S THRU HER108S





0.01

HER101S-HER103S HER104S-HER105S HER106S-HER108S



100

0.1

