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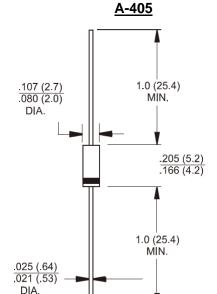
Features

- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Cases: Molded plastic A-405
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10s /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.22 grams

HER101S - HER108S 1.0AMP. High Efficient Rectifiers



Dimensions in inches and (millimeters)

Marking Diagram HER10XS = Specific Device Code G = Green Compound Y = Year WW = Work Week

Maximum Ratings and Electrical Characteristics

Type Number	Symbol	HER 101S	HER 102S	HER 103S	HER 104S	HER 105S	HER 106S	HER 107S	HER 108S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T _A =55°C	I _{F(AV)}	1								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	1.0 1.3				1.7			V	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	5 150						uA uA		
Maximum Reverse Recovery Time (Note 2)	Trr	50					75			nS
Typical Junction Capacitance (Note 3)	Cj	20						15		pF
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	100							°C/W	
Operating Temperature Range	TJ	- 65 to + 150						οС		
Storage Temperature Range	T _{STG}	- 65 to + 150							οС	

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

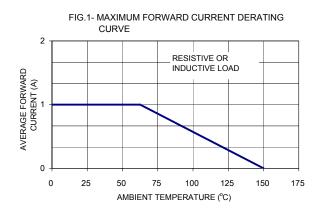
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

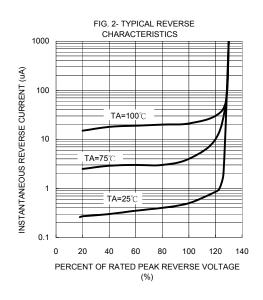
Note 4: Mount on Cu-Pad Size 5mm x 5mm on PCB

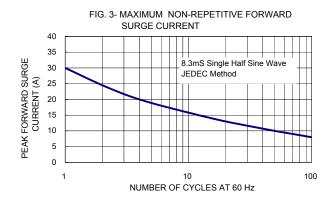
Version:C10



RATINGS AND CHARACTERISTIC CURVES (HER101S THRU HER108S)







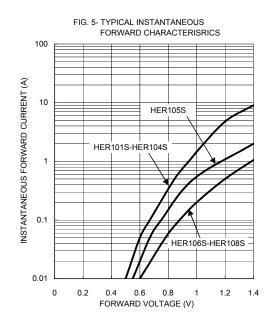


FIG. 4- TYPICAL JUNCTION CAPACITANCE

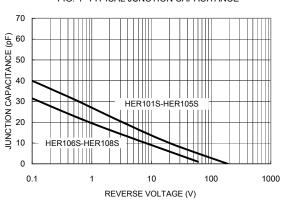


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

