

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER HER501G ~ HER508G

High Efficiency Rectifier

Features

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed: 260 $^\circ\!\!\mathbb{C}/10$ seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance

Mechanical Data

Case:	Transfer molded plastic					
Polarity:	Color band denots cathode end					
Ероху:	UL94V-0 rate flame retardant					
Lead:	Plated axial lead, solderable per MIL-STD-202E Method 208C					
Mounting Position:	Any					
Weight:	0.042 ounce, 1.19 gram					

Maximum Ratings (T Ambient=25°C unless noted otherwise)

Symbol	Description		HER 502G	HER 503G	HER 504G	HER 505G	HER 506G	HER 507G	HER 508G	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	1000	v	
VRMS	Max RMS Voltage		70	140	210	280	420	560	700	v	
VDC	Max DC Blocking Voltage		100	200	300	400	600	800	1000	v	
I(AV)	Max Average Forward Rectified Current 0.375" (9mm) lead length	5.0								А	ТА=50 °С
IFSM	Peak Forward Surge Current	200 150						Α	JEDEC method		
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							C		
R0-JA	Typical Thermal Resistance	20							°C/W	Note 2	

Electrical Characteristics (*T* Ambient=25°C unless noted otherwise)

Symbol	Description	HER 501G	HER 502G	HER 503G	HER 504G	HER 505G	HER 506G	HER 507G	HER 508G	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0	1	1.3		1.5 1.7				v	5.0A
IR(AV)	Maximum Full Load Reverse Current, Full Cycle average		150								0.375" (9.5mm) lead length at TL= 55°C
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10 500								μА	TA=25℃ TA=125℃
TRR	Maximum reverse recovery time	50					7	nS	Note 1		
J	Typical Junction capacitance		7	0		50				pF	Measured at 1.0MHz / 4.0V

Note:

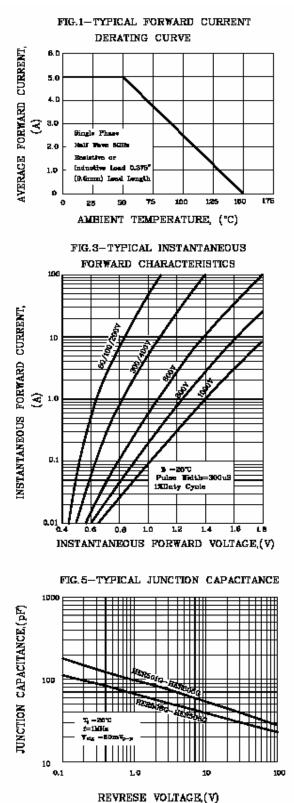
1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A

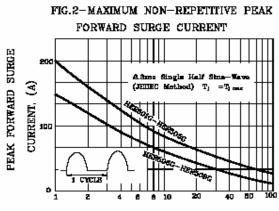
2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted



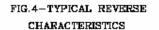
HER501G ~ HER508G

RATINGS AND CHARACTERISTIC CURVES HER501G THRU HER508G





NUMBER OF CYCLES AT 60 Hz



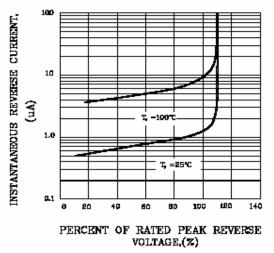
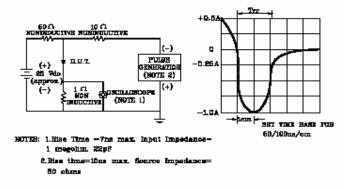


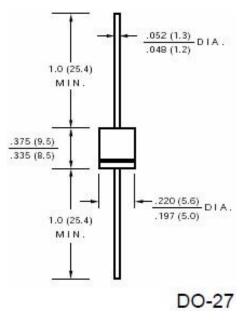
FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





HER501G ~ HER508G

Dimensions in inches (mm)



Contact us:

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