

High Efficiency Rectifier

Features

- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed: 260°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 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage		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	3.0							A	TA=55 ℃	
IFSM	Peak Forward Surge Current	200 150						Α	JEDEC method		
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150							Ĉ		
R0-JA	Typical Thermal Resistance	20							°C/W	Note 2	

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

Symbol	Description	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0		1.3		1.5		1.7	7	v	2.5A
IR(AV)	Maximum Full Load Reverse Current, Full Cycle average		150								0.375″ (9.5mm) lead length at TL= 55℃
IR	Max DC Reverse 10									μА	TA=25℃
	Blocking Voltage	500								P ² ·	TA=125℃
TRR	Maximum reverse recovery time	50					7	nS	Note 1		
C	Typical Junction capacitance		7	0		50				pF	Measured at 1.0MHz / 4.0V

Note:

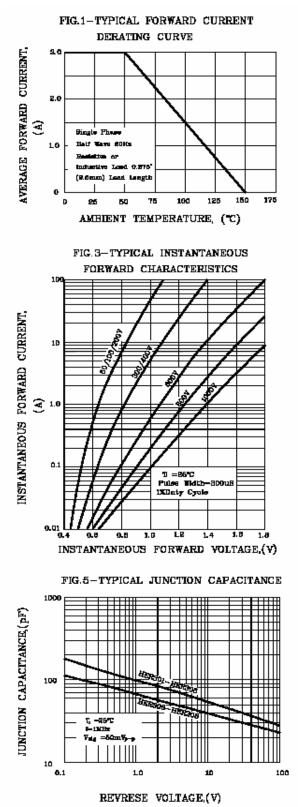
- 1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A
- 2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted





HER301 ~ HER308

RATINGS AND CHARACTERISTIC CURVES HER301 THRU HER308



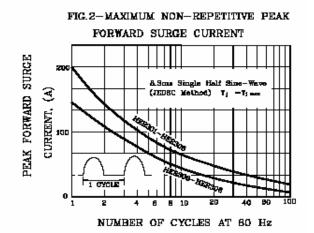


FIG.4-TYPICAL REVERSE CHARACTERISTICS

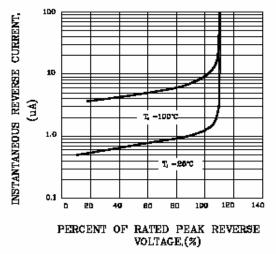
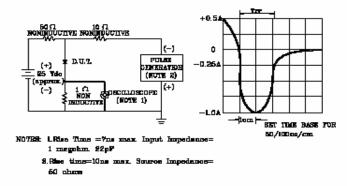


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

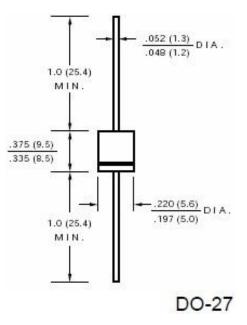






HER301 ~ HER308

Dimensions in inches (mm)



Contact us:

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