HER201G thru HER208G GOOD-ARK Electronics

2A,50-1000V High Efficient Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260 ℃/10 seconds



DO-15(DO-204AC)

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)										
Parameter	Symbol	HER201 G	HER202 G	HER203 G	HER204 G	HER205 G	HER206 G	HER207 G	HER208 G	Unit
Maximum repetitive 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	>
Maximum average forward rectified current	I _{F(AV)}		2						Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	60					А			
Operating junction temperature range	TJ	-55 to +150				°C				
Storage temperature range	T _{STG}	-55 to +150					°C			

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R _{θJA}	60	°C /W				
Thermal Resistance, Junction to Case	Rыс	14	°C /W				
Thermal Resistance, Junction to Lead	ReJL	12	°C /W				



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Electrical Specifications(TA=25°C unless otherwise noted)											
Parameter	Symbol	Test Conditions	HER201 G	HER202 G	HER203 G	HER204 G	HER205 G	HER206 G	HER207 G	HER208 G	Unit
Forward Drop Voltage	VF	I _F =2A	1.0 1.3 1.7					V			
Reverse		TJ =25°C	5								
leakage current @V _R	l _R	T」=125°C	100						- uA		
Typical junction capacitance	Сл	4.0 V 1 MHZ	50 30						pF		
Maximum		I _F =0.5A,	50 75								
reverse recovery	trr	I _R =1.0A,							nS		
time		I _{RR} =0.25A									

Note:

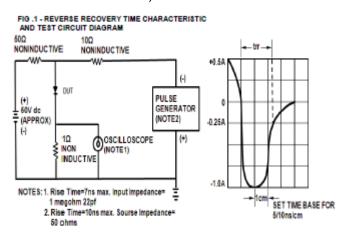
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

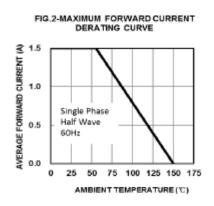


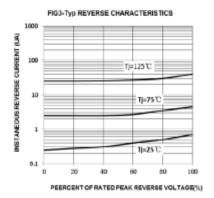
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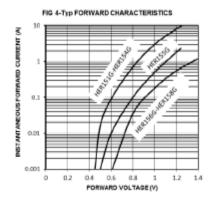
Ratings and Characteristics Curves

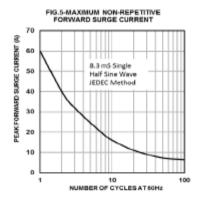
(TA = 25°C unless otherwise noted)

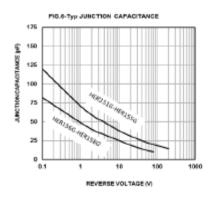












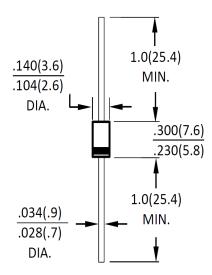
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Package Outline Dimensions

in inches (millimeters)

DO-15(DO-204AC)



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.11.13	Modify document format
Rev.C	2024.10.21	Modify IFSM information



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