HER151G thru HER158G GOOD-ARK Electronics

1.5A,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	HER151 G	HER152 G	HER153 G	HER154 G	HER155 G	HER156 G	HER157 G	HER158 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	V
Maximum average forward rectified current	I _{F(AV)}		1.5						Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM		50					А		
Operating junction temperature range	Тл	-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 _{0JA}	60	°C /W				
Thermal Resistance, Junction to Case	Rejc	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	HER151 G	HER152 G	HER153 G	HER154 G	HER155 G	HER156 G	HER157 G	HER158 G	Unit
Forward Drop Voltage	VF	I _F =1.5A	1.0 1.3 1.7					V			
Reverse			5								
leakage I _R current @V _R	IR IR	T」=125°C	100							uA	
Typical junction capacitance	Сл	4.0 V 1 MHZ	50 30					pF			
Maximum		I _F =0.5A,									
reverse recovery	trr	I _R =1.0A,	50 75						nS		
time		I _{RR} =0.25A									1

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)

FIG. 1 - REVERSE RECOVERY TIME CHARACTERISTIC

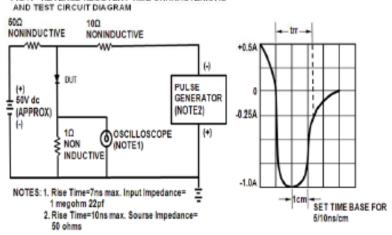
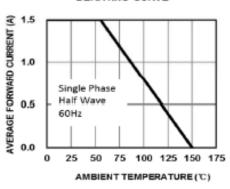


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE





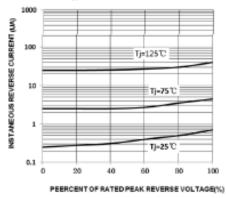


FIG 4-Typ FORWARD CHARACTERISTICS

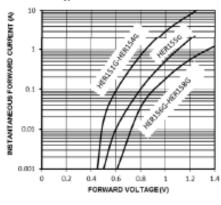
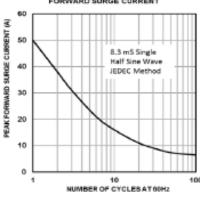
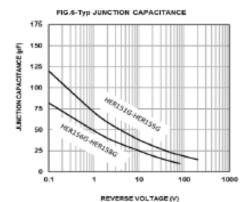


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





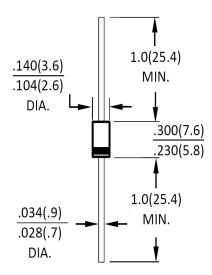
HER151G thru HER158G

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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



HER151G thru HER158G

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