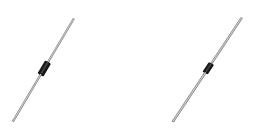


GOOD-ARK Electronics

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°C/10 seconds



DO-15(DO-204AC)

DO-41(DO-204AL)

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)										
Parameter	Symbol	HER151	HER152	HER153	HER154	HER155	HER156	HER157	HER158	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	VRMS	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	lf(AV)	1.5						А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM		50					A		
Operating junction temperature range	TJ	-55 to +135					°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 _{eja}	69	°C /W			
Thermal Resistance, Junction to Case	Rejc	37	°C /W			
Thermal Resistance, Junction to Lead	Rejl	28	°C /W			



HER151 thru HER158 GOOD-ARK Electronics

Electrical Specifications (TA=25°C unless otherwise noted)											
Parameter	Symbol	Test Conditions	HER151	HER152	HER153	HER154	HER155	HER156	HER157	HER158	Unit
Forward Drop Voltage	VF	I⊧=1.5A	1.0			1.3		1.7			V
Reverse		T」=25℃ 5							– uA		
leakage current @V _R	JV _R I _R T _J =125℃		100								
Typical junction capacitance	CJ	4.0 V 1 MHZ	50 30				pF				
Maximum reverse recovery	trr	I _F =0.5A, I _R =1.0A, 50 75					nS				
time	I _{RR} =0.25A										

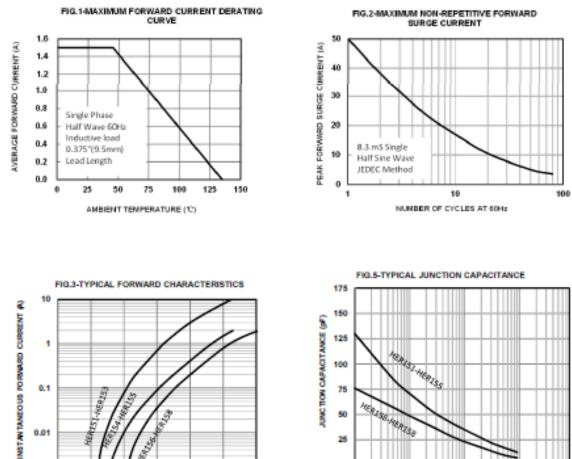
Note:

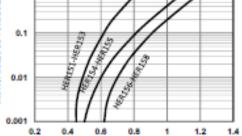
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.



Ratings and Characteristics Curves

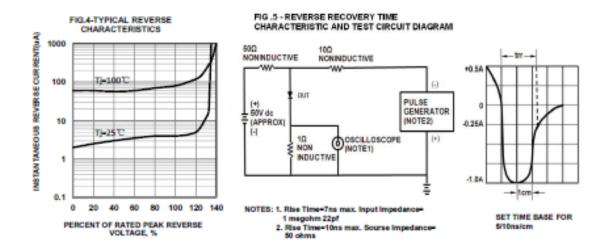
(TA = 25°C unless otherwise noted)





FORWARD VOLTAGE (V)

458 50 HERISS 25 0 0.1 10 1 100 REVERSE VOLTAGE (V)



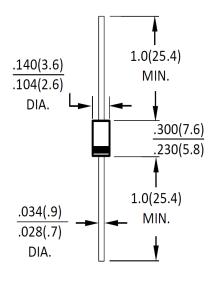


GOOD-ARK Electronics

Package Outline Dimensions

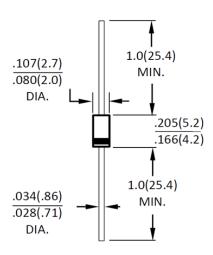
in inches (millimeters)

DO-15(DO-204AC)



Dimensions in inches and (millimeters)

DO-41(DO-204AL)



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2024.02.23	Modify document format



HER151 thru HER158

GOOD-ARK Electronics

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