GOOD-ARK Electronics

1.5A,50-1000V Fast Recovery 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	RGP15A	RGP15B	RGP15D	RGP15G	RGP15J	RGP15K	RGP15M	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	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	I _{FSM}	50				A			
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	Reja	65	°C /W				
Thermal Resistance, Junction to Case	R _{θJC}	26	°C /W				
Thermal Resistance, Junction to Lead	$R_{ heta JL}$	20	°C /W				



RGP15A thru RGP15M GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	RGP15A	RGP15B	RGP15D	RGP15G	RGP15J	RGP15K	RGP15M	Unit
Forward Drop Voltage	VF	I _F =1.5A	1.30					V		
Reverse leakage I _R current @V _R	L	T _J =25°C	5						- uA	
	IR	T _J =125°C		100						
Typical junction capacitance	С	4.0 V 1 MHZ	25					pF		
Maximum reverse recovery time	trr	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	150 250 500					nS		

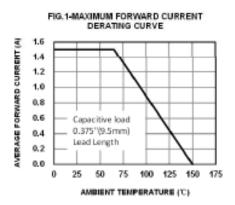
Note:

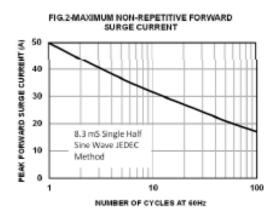
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

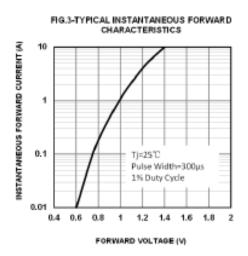
GOOD-ARK Electronics

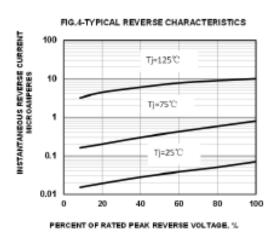
Ratings and Characteristics Curves

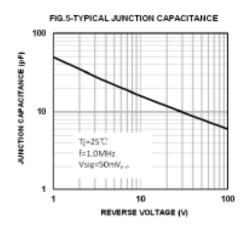
(TA = 25°C unless otherwise noted)

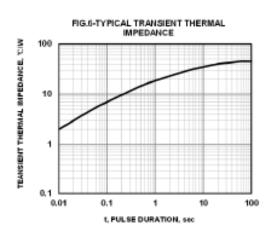










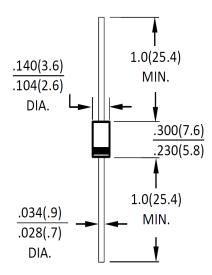


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Package Outline Dimensions

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



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