

GOOD-ARK Electronics

3A,50-600V Superfast 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-201AD

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	SF31	SF32	SF33	SF34	SF35	SF36	SF37	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum average forward rectified current	I _{F(AV)}	3						Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	I _{FSM}	125					А		
Operating junction temperature range	TJ	-55 to +150					°C		
Storage temperature range	Тѕтс	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	R _{θJA}	32	°C /W			
Thermal Resistance, Junction to Case	Rejc	18	°C W			
Thermal Resistance, Junction to Lead	ReJL	16	°C /W			



Electrical Specifications(TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	SF31	SF32	SF33	SF34	SF35	SF36	SF37	Unit
Forward Drop Voltage	V _F	I _F =3A	0.95 1.30 1.70				1.70	V		
Reverse leakage I _R current @V _R	T _J =25°C	5								
	IR	T」=125°C	100						uA	
Typical junction capacitance	Сл	4.0 V 1 MHZ	100 80					pF		
Maximum reverse recovery time	trr	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	35					nS		

Note:

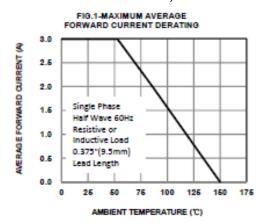
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

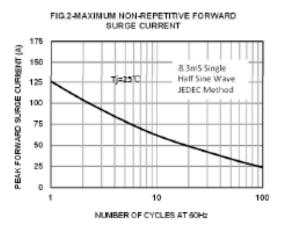


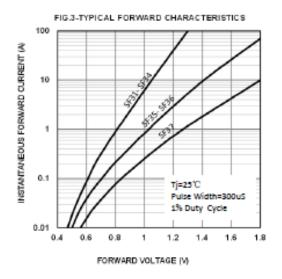
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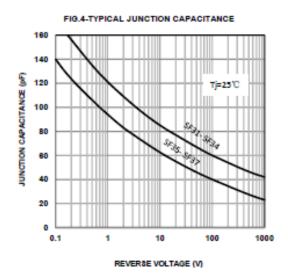
Ratings and Characteristics Curves

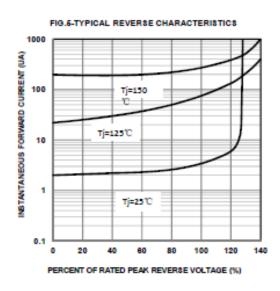
(TA = 25°C unless otherwise noted)

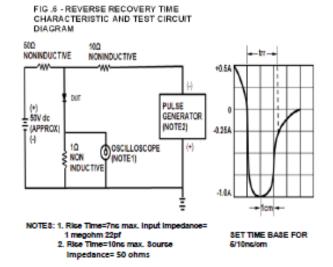










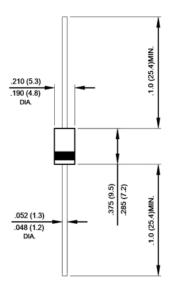




Package Outline Dimensions

in inches (millimeters)

DO-201AD



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

SF31 thru SF37

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