

GOOD-ARK Electronics

3A,50-1000V Standard 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	P300A	P300B	P300D	P300G	P300J	P300K	P300M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	3				А			
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ігэм	200				А			
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	Reja	38	°C /W				
Thermal Resistance, Junction to Case	R _{θJC}	17	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	16	°C /W				



P300A thru P300M GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)										T
Parameter	Symbol	Test Conditions	P300A	P300B	P300D	P300G	P300J	P300K	P300M	Unit
Forward Drop Voltage	V _F	I _F =3A	1.20					V		
Reverse leakage	erse leakage	TJ =25°C	5							
current @V _R	I _R	T _J =125°C 100						uA		
Typical junction capacitance	Сл	4.0 V 1 MHZ	30					pF		

Note:

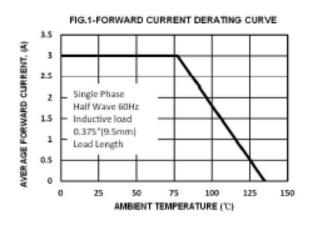
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

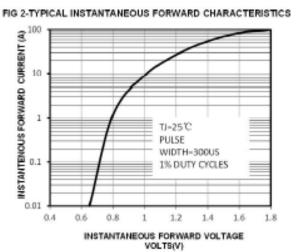


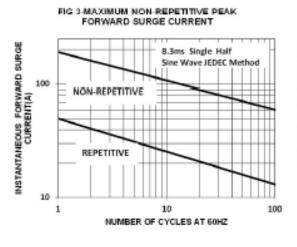
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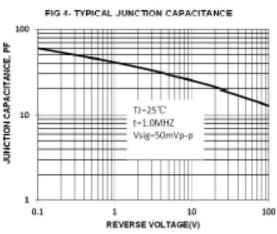
Ratings and Characteristics Curves

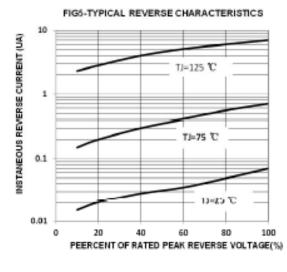
(TA = 25°C unless otherwise noted)

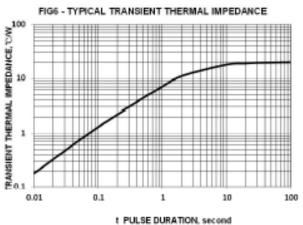










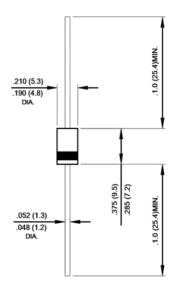




Package Outline Dimensions

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	2024.02.22	Modify document format



P300A thru P300M

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