

4A,200V Superfast Rectifier

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-201AD

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)					
Parameter	Symbol	MUR420	Unit		
Maximum repetitive peak reverse voltage	Vrrm	200	V		
Maximum RMS voltage	Vrms	140	V		
Maximum DC blocking voltage	V _{DC}	200	V		
Maximum average forward rectified current	IF(AV)	4	А		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ifsm	125	A		
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +175	°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	R _{0JA}	32	°C /W			
Thermal Resistance, Junction to Case	Rejc	18	°C /W			
Thermal Resistance, Junction to Lead	Rejl	16	°C /W			



MUR420 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)					
Parameter	Symbol	Test Conditions	MUR420	Unit	
Forward Drop Voltage	VF	I⊧=3A Tյ=25℃	0.875	V	
		I⊧=3A Tյ=150℃	0.710		
		I⊧=4A Tյ=25℃	0.890		
Reverse leakage current @V _R	IR	TJ =25℃	5	uA	
		T」=150°C	150		
Typical junction capacitance	CJ	4.0 V 1 MHZ	80	pF	
Maximum reverse recovery time	trr	I _F =0.5A,			
		I _R =1.0A,	25	nS	
		I _{RR} =0.25A			

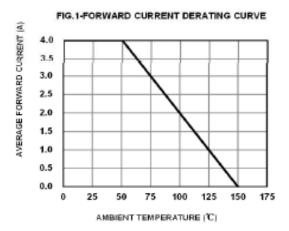
Note:

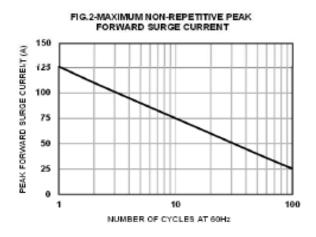
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





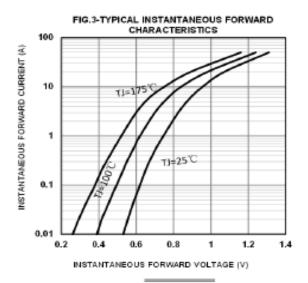
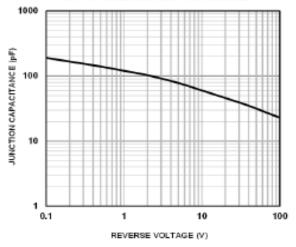
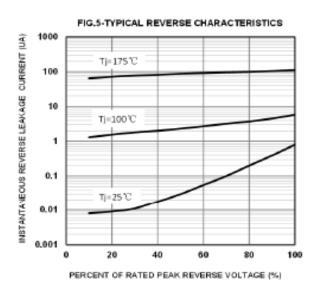


FIG.4-TYPICAL JUNCTION CAPACITANCE



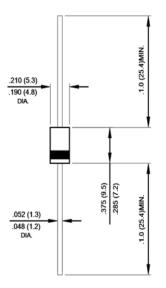




Package Outline Dimensions

in inches (millimeters)

DO-201AD



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	se Description of changes	
Rev.A	2021.06.01	Released Datasheet	
Rev.B	2023.11.13	Modify document format	



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