

GOOD-ARK Electronics

## 4A,400-600V 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	MUR440	MUR460	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	400	600	V
Maximum RMS voltage	V <sub>RMS</sub>	280	420	٧
Maximum DC blocking voltage	V <sub>DC</sub>	400	600	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	4		А
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	ave superimposed on rated I <sub>FSM</sub> 125		A	
Operating junction temperature range	TJ	-55 to	+150	°C
Storage temperature range	Tstg	-55 to +175		°C

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



# MUR440 thru MUR460 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	MUR440	MUR460	Unit	
Forward Drop Voltage	VF	I⊧=3A TJ=25℃	1.25			
		I⊧=3A TJ=150℃	1.05		V	
		I⊧=4A TJ=25℃	1.28			
Reverse leakage current @V <sub>R</sub>		T <sub>J</sub> =25°C	1	0	· uA	
	IR IR	T」=150°C	25	50		
Typical junction capacitance	Сл	4.0 V 1 MHZ	6.	2	pF	
Maximum reverse recovery time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A	5	0	nS	

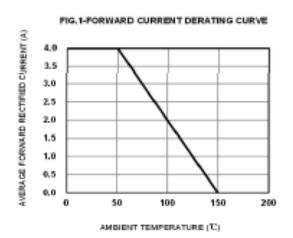
#### Note:

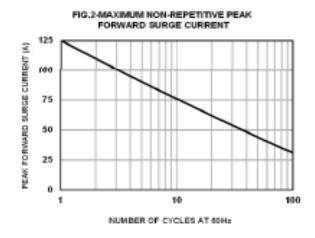
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

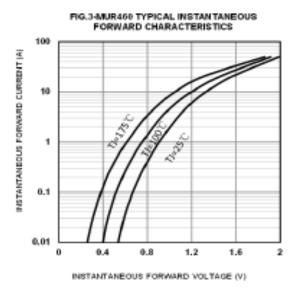
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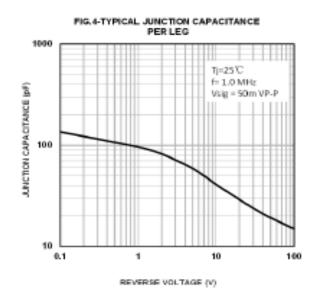
### **Ratings and Characteristics Curves**

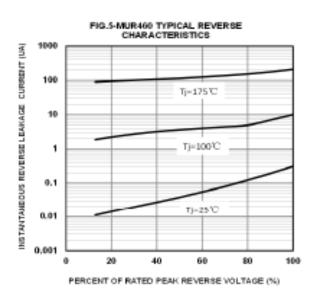
(TA = 25°C unless otherwise noted)









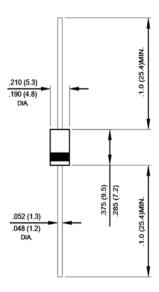


# MUR440 thru MUR460 GOOD-ARK Electronics

## **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



## MUR440 thru MUR460

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