



20A,600V Ultrafast Recovery Rectifier

Features

- FRED Wafer Construction
- Low forward drop voltage, low power loss
- High Surge Current Capability
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21



ITO-220AC

Applications

- SMPS
- Lighting
- UPS



Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MUR2060F	Unit	
Maximum repetitive peak reverse voltage	VRRM	600	V	
Working peak reverse voltage	VRMS	420	V	
Maximum DC blocking voltage	VDC	600	V	
Maximum average forward rectified current	lF(AV)	20	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	150	Α	
Voltage rate of change (rated VR)	dv/dt	10000	V/uS	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C	



MUR2060F GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward Drop Voltage (Note1)	VF	IF=20A, TJ =25°C	-	1.80		
Forward Drop Voltage (Note1)		IF=20A, TJ =125℃	-	1.70	V	
Deviated legislates assument @VD (Note2)	IR	TJ =25℃	-	10	uA	
Reverse leakage current @VR (Note2)		TJ =125℃	-	500		
Reverse recovery time trr		IF=0.5A, IR=1.0A, IRR=0.25A	-	40	ns	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Case	RеJC	4.0	°C /W		
Thermal Resistance, Junction to Ambient	Reja	62.5	°C /W		

Note:

- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

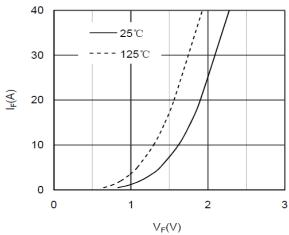


Figure 1. Forward Voltage Drop vs Forward Current

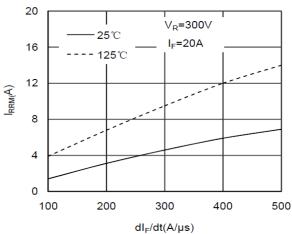


Figure 3. Reverse Recovery Current vs dl_F/dt

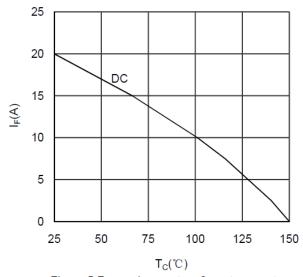


Figure 5.Forward current vs Case temperature

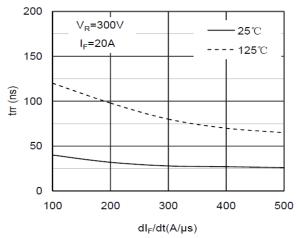


Figure 2. Reverse Recovery Time vs dI_F/dt

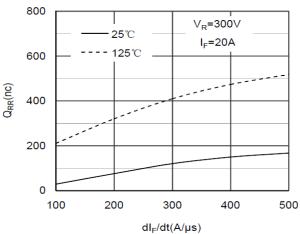
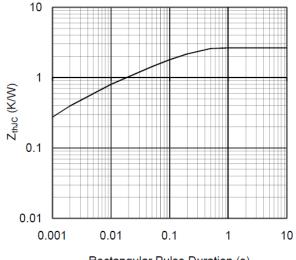


Figure 4. Reverse Recovery Charge vs dl_F/dt

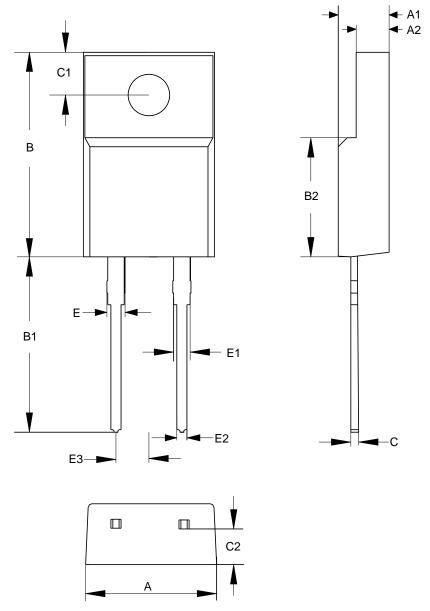


Rectangular Pulse Duration (s)
Figure 6.Transient Thermal Impedance



Package Outline Dimensions (Unit: millimeters)

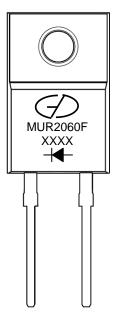
ITO-220AC



	ITO-220AC						
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	9.9	10.1	10.3	C1	3.2	3.3	3.4
A1	4.6	4.7	4.8	C2	2.15	2.45	2.75
A2	2.44	2.54	2.64	Е	1.15	1.35	1.55
В	15.3	15.8	16.3	E1	1.17	1.27	1.37
B1	13.05	13.55	14.05	E2	0.7	0.8	0.9
B2	8.9	9.2	9.5	E3	2.44	2.54	2.64
С	0.5	0.6	0.7				



Marking Outline



Logo Mark:

Part Name: MUR2060F

Data Code: XXXX

Polarity:

Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.12.15	Released Datasheet
Rev.B	2021.01.22	Modify document format



MUR2060F

GOOD-ARK Electronics

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.