

GOOD-ARK Electronics

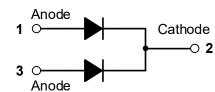
10A,600V Ultrafast Recovery Rectifier

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



TO-220AB



Applications

- SMPS
- Lighting
- UPS

Mechanical Data

- Case: Epoxy, Molded
- 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	MUR1060CT	Unit	
Maximum repetitive peak reverse voltage	VRRM	600	V	
Working peak reverse voltage	VRWM	600	V	
Maximum DC blocking voltage	VDC	600	V	
Maximum average forward rectified current	IF(AV)	10	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	lгsм	60	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	



Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
	VF	IF=5A, TJ =25℃	1.40	1.60	V	
Forward drap voltage (Note1)		IF=5A, TJ =125℃	-	1.50		
Forward drop voltage (Note1)		IF=10A, TJ =25℃	-	-		
		IF=10A, TJ =125℃	-	-		
Poverse legicage current @V/D (Note2)	lR	TJ =25℃	-	10	- uA	
Reverse leakage current @VR (Note2)		TJ =100℃	-	500		
Reverse recovery time	se recovery time trr		-	50	ns	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Case	Rejc	2.0	°C /W	
Thermal Resistance, Junction to Ambient	RөJA	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)

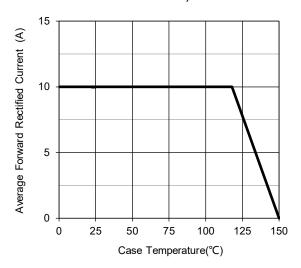


Fig.1 - Forward Current Derating Curve

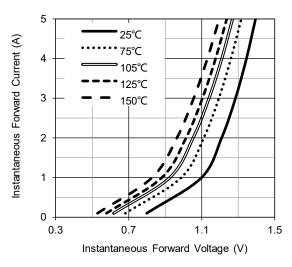


Fig.3 - Typical Forward Voltage Characteristics

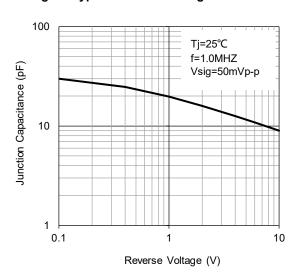


Fig.5 - Typical Junction Capacitance

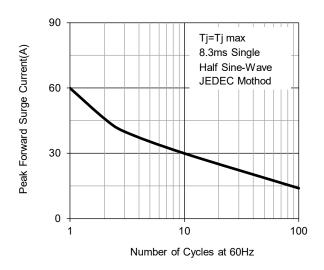


Fig.2 - Maximum Non-Repetitive Surge Current

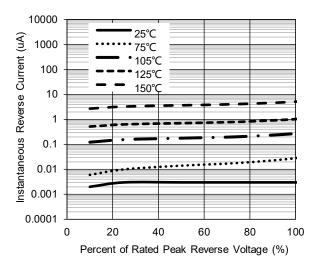
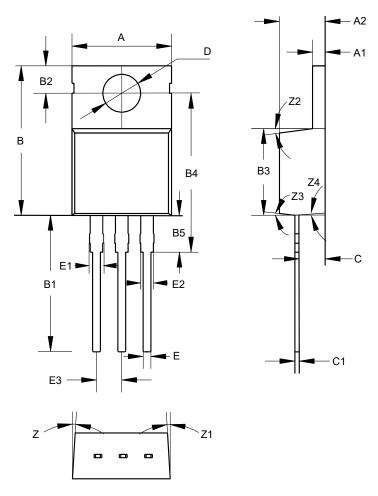


Fig.4 - Typical Reverse Current Characteristics

Package Outline Dimensions (Unit: millimeters)

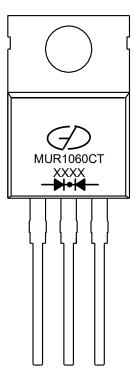
TO-220AB



	TO-220AB						
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	9.8	10	10.2	D	3.7	3.8	3.9
A1	1.17	1.27	1.37	Е	0.68	0.78	0.88
A2	4.5	4.6	4.7	E1	1.2	1.4	1.6
В	14.5	15	15.5	E2	1.17	1.27	1.37
B1	13.2	13.7	14.2	E3	2.44	2.54	2.64
B2	2.65	2.75	2.85	Z		3°	
В3	8.5	8.7	8.9	Z1		3°	
В4	15.5	16	16.5	Z2		7°	
B5	3.4	3.7	4.0	Z3		7°	
С	2.3	2.6	2.9	Z4		1.5°	
C1	0.28	0.38	0.48		·		



Marking Outline



Logo Mark:

Part Name: MUR1060CT 2.

3. Date Code: XXXX

4. Polarity : → ► ► ← ←

Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.04	Released Datasheet
Rev.B	2021.01.22	Modify document format
Rev.C	2022.05.17	Update ratings and characteristics curves





GOOD-ARK Flectronics

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