

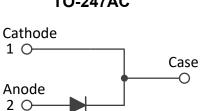
GOOD-ARK Electronics

60A,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-247AC



Applications

- SMPS
- Inverter
- 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 30 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MUR6060P	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	lf(AV)	60	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	600	А	
Voltage rate of change (rated VR)	dv/dt	10000	V/uS	
Operating junction temperature range	TJ	-55 to +175	°C	
Storage temperature range	Тѕтс	-55 to +175	°C	

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drap voltage (Note1)	VF	I ⊧=60A, TJ =25 ℃	1.35	1.85	v	
Forward drop voltage ^(Note1)		IF=60A, TJ =125℃	-	1.70	V	
Device a la characterister (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	-	80	ns	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Case	Rejc	1.0	°C /W		
Thermal Resistance, Junction to Ambient	Reja	62.5	°C /W		

Note:

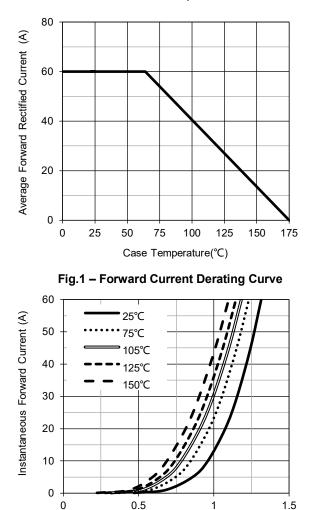
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



MUR6060P GOOD-ARK Electronics

Ratings and Characteristics Curves

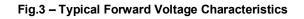
(TA = 25°C unless otherwise noted)



Instantaneous Forward Voltage (V)

1

0.5



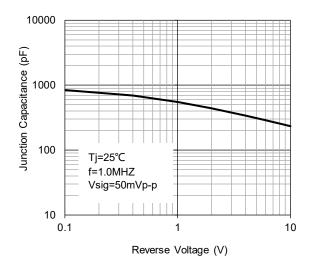
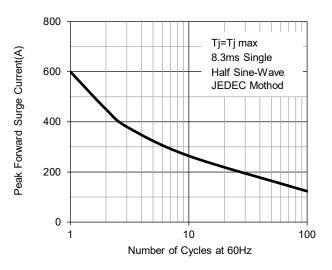
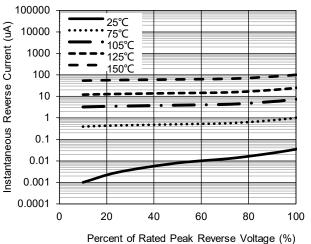


Fig.5 – Typical Junction Capacitance





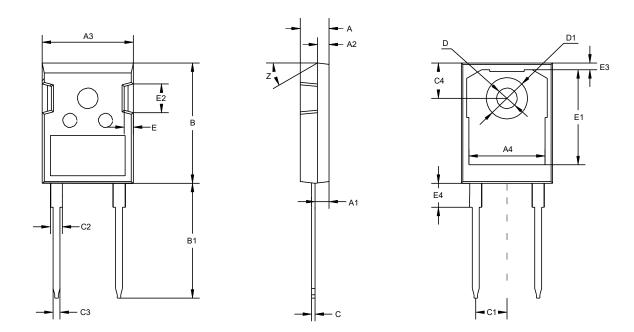






Package Outline Dimensions (Unit: millimeters)

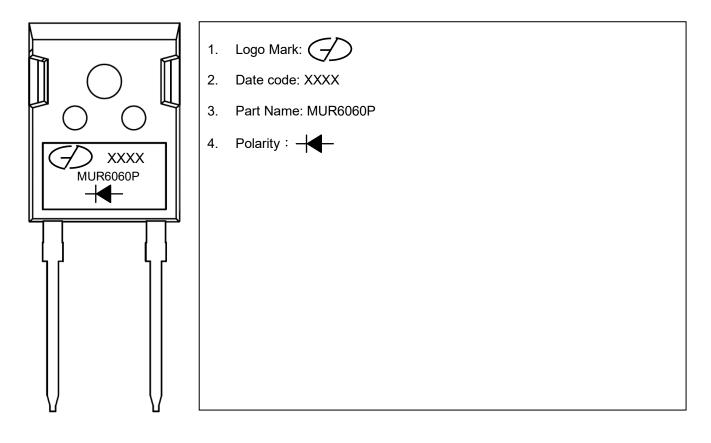
TO-247AC



TO-247AC							
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	4.7	5	5.2	C3	1.1	1.2	1.3
A1	2.3		2.5	C4	6.04	6.15	6.30
A2	1.9	2	2.1	D	3.5	3.6	3.7
A3	15.48	15.88	16.28	D1	7	7.19	7.4
A4	13.06	13.26	13.56	E	1.5	1.6	1.7
В	20.8	20.95	21.1	E1		16.55	
B1	19.8	20	20.32	E2	4.9	5.0	5.1
С	0.5	0.6	0.7	E3	0.95	1.17	1.35
C1	5.34	5.44	5.54	E4		4.17	4.5
C2		2		Z		30°	



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2022.06.08	Preliminary Datasheet



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