

MUR6060SPT GOOD-ARK Electronics

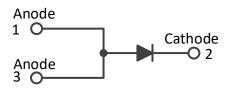
60A,600V Ultrafast Recovery Rectifier

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







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 (T _A =25°C unless otherwise noted)							
Parameter	Symbol	MUR6060SPT	Unit				
Maximum repetitive peak reverse voltage		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				



Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Case	RthJC	1.0	°C /W		
Thermal Resistance, Junction to Ambient	RthJA	62.5	°C /W		

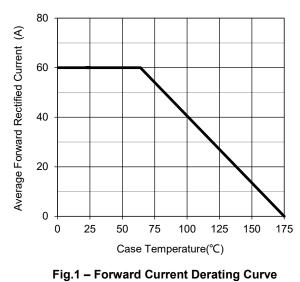
Electrical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drop voltage (Note 1)	VF	IF=60A, TJ =25°C	1.35	1.85		
		IF=60A, TJ =125°C -		1.70	V	
Reverse leakage current @VR (Note 2)	IR	TJ =25°C	-	10		
		TJ =125°C	-	500	- uA	
Reverse recovery time		IF=0.5A, IR=1.0A, IRR=0.25A	-	80	ns	

Note 1: Pulse test with PW=0.3ms, duty cycle=2% Note 2: Pulse test with PW=30ms



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Ratings and Characteristics Curves (T_A=25°C unless otherwise noted)



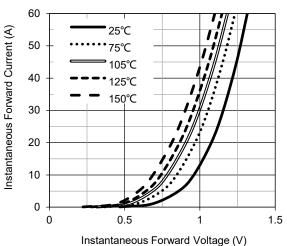


Fig.3 – Typical Forward Voltage Characteristics

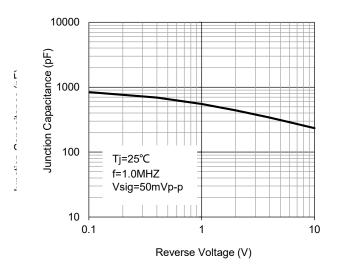


Fig.5 – Typical Junction Capacitance

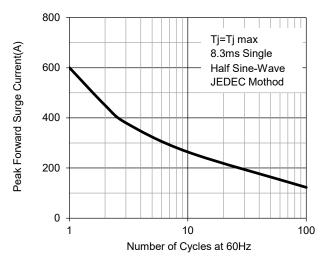


Fig.2 – Maximum Non-Repetitive Surge Current

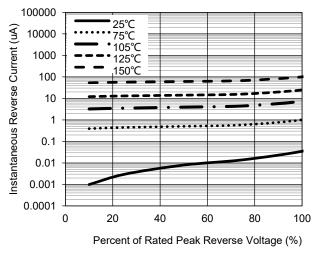
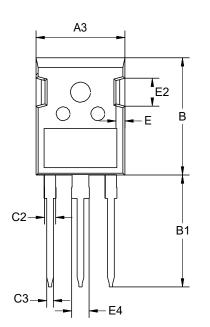


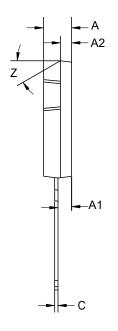
Fig.4 – Typical Reverse Current Characteristics

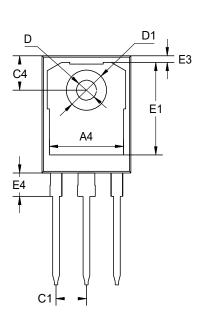


Package Outline Dimensions (Unit: millimeters)

TO-247AD



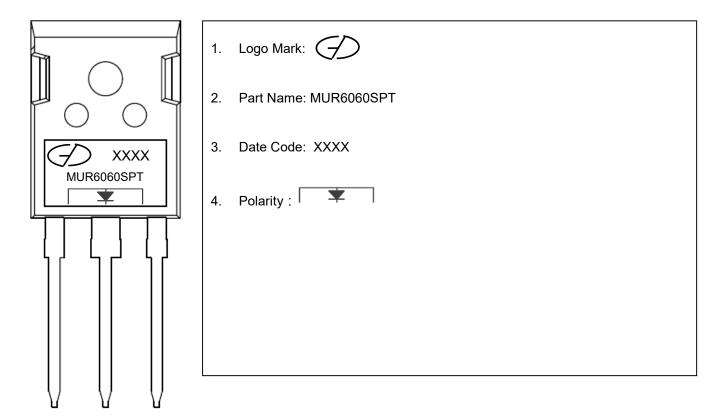




TO-247AD							
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	4.7	5	5.2	C3	1.1	1.2	1.3
A1	2.3	-	2.5	C4	6.04	6.15	6.30
A2	1.9	2	2.1	D	3.5	3.6	3.7
A3	15.48	15.88	16.28	D1	7	7.19	7.4
A4	13.06	13.26	13.56	E	1.5	1.6	1.7
В	20.8	20.95	21.1	E1	-	16.55	-
B1	19.8	20	20.32	E2	4.9	5.0	5.1
С	0.5	0.6	0.7	E3	0.95	1.17	1.35
C1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



Marking Outline





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