

Technical Data Data Sheet N0312, Rev. - **Green Products**

MUR1060CT ULTRAFAST RECTIFIER

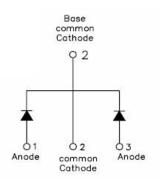
Applications:

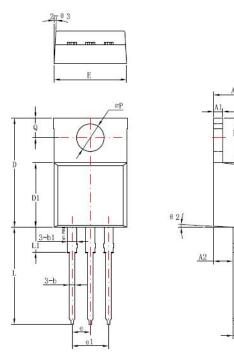
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm





Symbol	Dimensions in millimeters			
-	Min	Typical	Max	
Α	4.42	4.57	4.72	
A1	1.17	1.27	1.37	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.61		
D	14.94	15.24	15.54	
D1	8.85	9.00	9.15	
E	10.01	10.16	10.31	
е		2.54		
e1		5.06		
H1	6.04	6.24	6.44	
L	12.7	13.56	13.78	
L1		3.5		
ΦΡ	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7 °		
Θ2		3°		
Θ3		4 °		

OPTION1

2 - 01

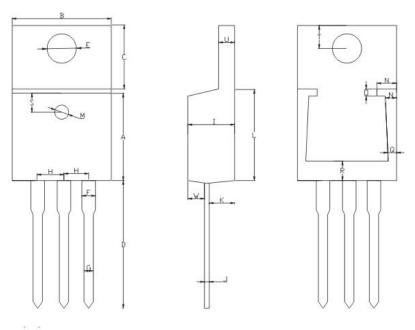
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A:8.5±0.5	$B: 9.5 \pm 0.5$	$C:6,4\pm0,5$	D:14.1±1
A. 0. 0 ± 0. 0	D. 5. 5 ± 0. 5	0.0.410.0	D. 17. 1 ± 1
E: 3, $84 \pm 0, 03$	$F: 1.27 \pm 0.03$	$G:0.85\pm0.10$	H:2, 54 \pm 0, 025
I:4.6±0.5	J:0.38±0.015	K:2.75±025	L:9.0 \pm 0.5
M:1.5±0.05	N:1.8±0.05	$0:0.5 \pm 0.05$	$P:1.2\pm0.05$
Q:0.9±0.05	R: 3, 2 ± 0 , 05	S:1.55±0.05	T:2.8±0.15
U: 1. 27 ± 0.05	W:1.27±0.03		

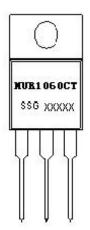
OPTION 2 (SR)

TO-220AB



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Marking Diagram:



Where XXXXX is YYWWL

MUR 10	= Device Type = Forward Current (10A)
60	= Reverse Voltage (600V)
СТ	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1060CT	TO-220AB	EOneo (tubo
	(Pb-Free)	50pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	600	V
Average Forward Current (Per device)	I _{F(AV)}	50% duty cycle @Tc=100°C, rectangular wave form	10	A
Peak One Cycle Non-Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	125	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 5A, Pulse, TJ = 25°C	1.7	V
(Per leg)*	V _{F2}	@ 5A, Pulse, T _J = 100°C	1.5	V
	I _{R1}	@V _R = rated V _R	5	μA
Reverse Current(Per leg)*		T _J = 25°C		
	I _{R2}	@V _R = 0.8 V _R	50	μA
		T _J = 100°C		
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	Tstg	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	4	°C/W
Approximate Weight	Wt	-	2	g
Case Style		TO-220AB		



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