

Green Products

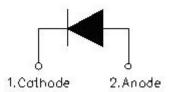
MUR1060 ULTRAFAST RECTIFIER

Applications:

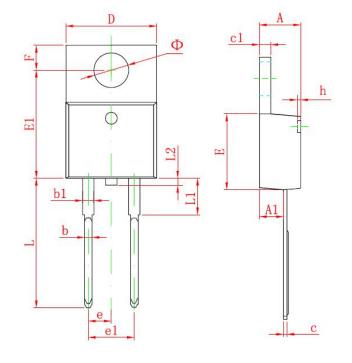
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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



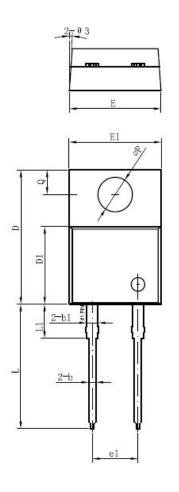
Overale al	Dimensions In Millimeters		
Symbol	Min	Max	
Α	4.470	4.670	
A1	2.520	2.820	
b	0.710	0.910	
b1	1.170	1.370	
С	0.310	0.530	
c1	1.170	1.370	
D	10.010	10.310	
E	8.500	8.900	
E1	E1 12.060	12.460	
е	2.540	TYP	
e1	4.980	5.180	
F	2.590	2.890	
h	0.000	0.300	
L	13.400	13.800	
L1	3.560 3.96		
L2		1.000	
Ф	3.735	3.935	

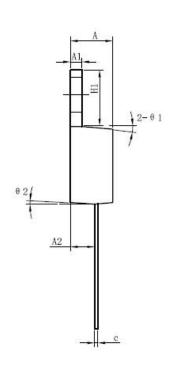
OPTION 1(CJ)

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Symbol	Dimensions in millimeters			
Syllibol	Min.	Typical	Max.	
Α	4.55	4.70	4.85	
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	0.38	0.61	
D	14.64	14.94	15.24	
D1	8.55	8.07	8.85	
E	10.01	10.16	10.31	
E1	9.98	10.18	10.38	
e1		5.08		
H1	6.04	6.24	6.44	
L	13.00	13.86	14.08	
L1		3.80		
ФР	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		5°		
Θ2		4°		
Θ3		4°		

OPTION 2(HD)

TO-220AC



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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

10 = Forward Current (10A) 60 = Reverse Voltage (600V)

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1060	TO-220AC	50pcs / tube
	(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	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	-	600	V
DC Blocking Voltage	V_{R}			
Average Forward Current	I _{F(AV)}	50% duty cycle @TC =100°C rectangular wave form	10	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	125	Α

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 10A, Pulse, T _J = 25℃	2.2	V
	V _{F2}	@ 10 A, Pulse, T _J = 100℃	2.0	V
Reverse Current	I _{R1}	@V _R = rated VR T _J = 25°C	5	μА
	I _{R2}	@V _R = rated VR T _J = 100℃	50	μА
Reverse Recovery Time	t _{rr}	IF=10A, di/dt=50A/μs, 25℃	50	ns

^{*} Pulse Width < 300 µs, Duty Cycle <2%

Measured lead to lead 5 mm from package body

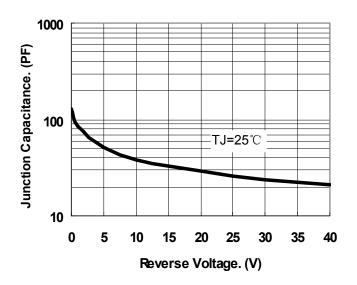
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	$^{\circ}\mathbb{C}$
Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}$ C
Typical Thermal Resistance Junction to Case	R _θ JC	DC operation	4	°C/W
Approximate Weight	wt	-	1.6	g
Case Style		TO-220AC		

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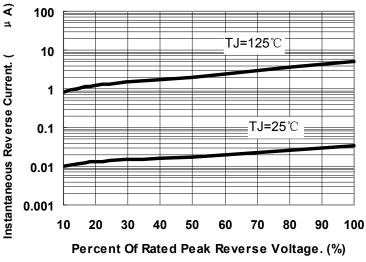


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

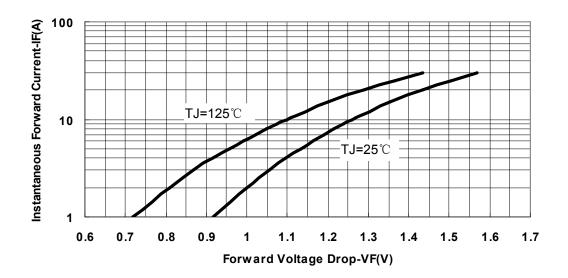


Fig.3-Typical Forward Voltage Drop Characteristics

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