

Technical Data Data Sheet N0323, Rev. A **Green Products**

MUR6030WT ULTRAFAST PLASTIC RECTIFIER

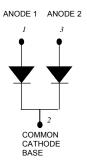
Applications:

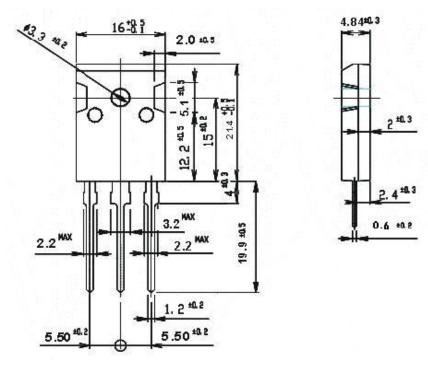
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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/Inches

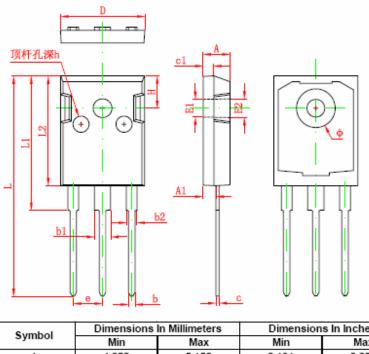








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Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	4.850	5.150	0.191	0.200	
A1	2.200	2.600	0.087	0.102	
b	1.000	1.400	0.039	0.055	
b1	2.800	3.200	0.110	0.126	
b2	1.800	2.200	0.071	0.087	
с	0.500	0.700	0.020	0.028	
c1	1.900	2.100	0.075	0.083	
D	15.450	15.750	0.608	0.620	
E1	3.500 REF		0.138 REF		
E2	3.600	3.600 REF 0.142 REF		2 REF	
L	40.900	41.300	1.610	1.626	
L1	24.800	25.100	0.976	0.988	
L2	20.300	20.600	0.799	0.811	
Φ	7.100	7.300	0.280	0.287	
e	5.450	5.450 T/P 0.215 T/P		5 TYP	
Н	5.980	5.980 REF 0.235 REF		REF	
h	0.000	0.300	0.000	0.012	

OPTION 2(CJ)

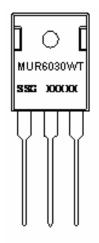
TO-247AD



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Marking Diagram:



Where XXXXX is YYWWL

MUR	= Device Type
60	= Forward Current (60A)
30	= Reverse Voltage (300V)
WT	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MUR6030WT	TO-247AD	20 pag / tubo
	(Pb-Free)	30 pcs / 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 Inverse Voltage	V _{RWM}	-	300	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	60	A
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse @T _J =45°C	230	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage	V _{F1}	@ 30A, Pulse, T _J = 25°C	1.3	V
Drop(Per leg)*	V _{F2}	@ 30A, Pulse, T _J = 150°C	0.98	V
	I _{R1}	$@V_R = rated V_R$	50	μA
Max. Reverse Current*		T _J = 25°C		
	I _{R2}	$@V_R = rated V_R$	3	mA
		T _J = 150°C		
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	35	ns

* Pulse width < 300 $\mu s, \ duty \ cycle < 2\%$

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	2	°C/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		

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