

Technical Data Data Sheet N0279, Rev. - **Green Products**

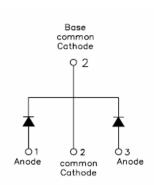
MUR1030CT ULTRAFAST PLASTIC RECTIFIER

Applications:

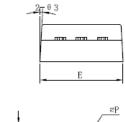
- Switching Power Supply
- Power Switching Circuits
- General Purpose

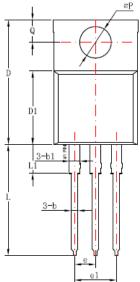
Features:

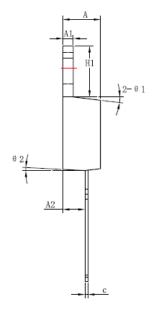
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm







Symbol	Dimensions in millimeters			
•	Min	Typical	Max	
Α	4.42	4.57	4.72	
A 1	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	14.94	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		
ФР	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1	_	7°	_	
Θ2		3°		
Θ3		4°		

TO-220AB

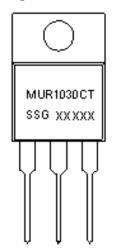
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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

10 = Forward Current (10A) 30 = Reverse Voltage (300V)

CT = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1030CT	TO-220AB	FOnce / 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 Inverse Voltage	V_{RWM}	-	300	V
Max. Average Forward	I _{F(AV)}	50Hz, Sine wave,T _C =100℃,	10	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	50Hz, Half Sine wave	150	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (Per leg)*	V_{F1}	@ I _F =5A, Pulse, T _J = 25℃	1.3	V
Max. Reverse Current	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}$	10	μA
(Per leg)*	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 100 ^{\circ}$	400	μA
Max. Reverse Recovery Time (Per leg)*	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	$^{\circ}$ C
Max. Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}$
Maximum Thermal Resistance Junction to Case (Per Leg)	$R_{ heta JC}$	DC operation	1.5	°C/W
Approximate Weight	wt	-	2.0	g
Case Style		TO-220AB		



MUR1030CT

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