

Green Products

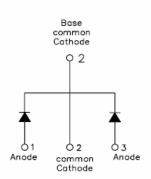
MUR2040CT ULTRAFAST PLASTIC RECTIFIER

Applications:

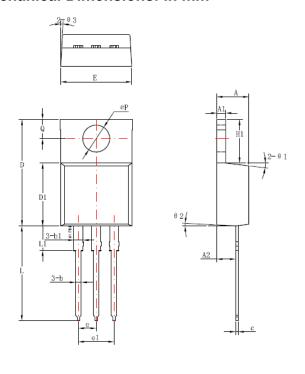
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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	
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	14.94	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

20 = Forward Current (20A) 40 = Reverse Voltage (400V)

CT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MUR2040CT	TO-220AB	EOpos / 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 Inverse Voltage	V_{RWM}	-	400	V
Max. Average Forward	lo _(AV)	50% duty cycle @Tc=100°C, rectangular wave form	20	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	50Hz, Half Sine wave	125	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (Per leg)*	V _F	@ I _F =10A, Pulse, T _J = 25°C	1.5	V
Max. Reverse Current (Per leg)*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	10	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	500	uA
Max. Reverse Recovery Time (Per leg)*	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	35	ns

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

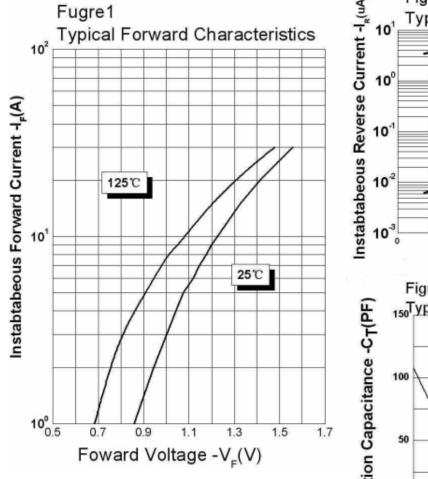
Thermal-Mechanical Specifications:

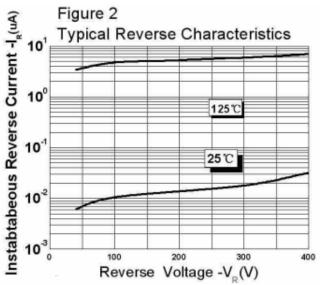
Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2	°C/W
Approximate Weight	wt	-	2	g
Case Style	TO-220AB			

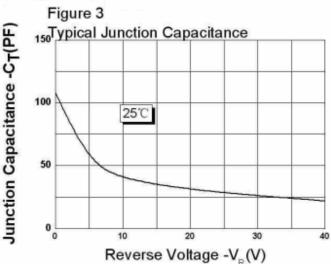




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MUR2040CT

Technical Data
Data Sheet N0317, Rev. -

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