

Green Products

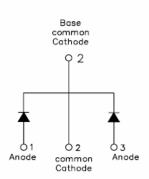
MUR1560CT ULTRAFAST PLASTIC RECTIFIER

Applications:

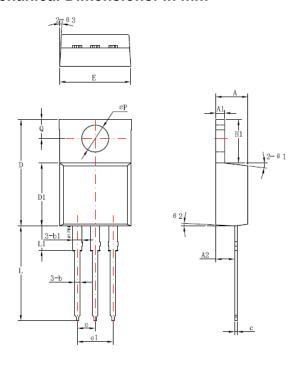
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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



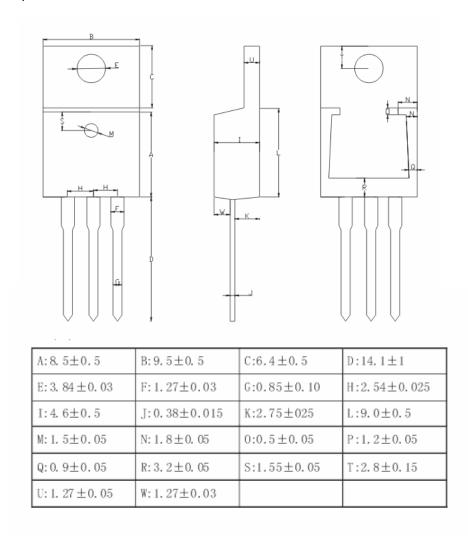
Symbol	Dimensions in millimeters			
-	Min	Typical	Max	
Α	4.42	4.57	4.72	
A1	1.17	1.27	1.37	
A2	2.59	2.69	2.89	
b	0.71	0.81	0.96	
b1		1.27		
С	0.36	0.38	0.61	
D	14.94	15.24	15.54	
D1	8.85	9.00	9.15	
E	10.01	10.16	10.31	
е		2.54		
e1		5.06		
H1	6.04	6.24	6.44	
L	12.7	13.56	13.78	
L1		3.5		
ФР	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7°		
Θ2		3°		
Θ3		4°		

OPTION1

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OPTION 2 (SR)

TO-220AB

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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

= Forward Current (15A) = Reverse Voltage (600V)

CT = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1560CT	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}	-	600	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	15	А
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	А

Electrical Characteristics:

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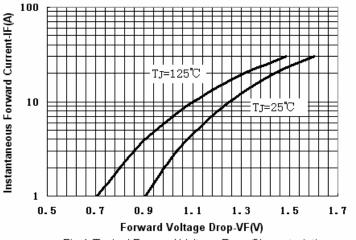
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 7.5A, Pulse, T _J = 25°C	2.2	V
(per leg)	V_{F2}	@ 7.5A, Pulse, T _J = 125°C	2.0	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_L = 25^{\circ}C$	5.0	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	50	μA
Max. 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
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	2.0	°C/W
Approximate Weight	wt	-	2	g
Case Style	TO-220AB			

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0.0001 0.0001 0.00001 100 200 300 400 500 600 Reverse Voltage-VR(V)

Fig.1-Typical Forward Voltage Drop Characteristics

Fig.2-Typical Values of Reverse Current Vs. Reverse Voltage

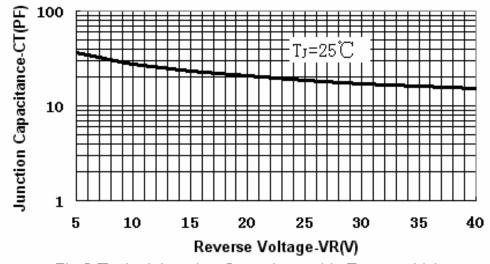


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage

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MUR1560CT

Technical Data
Data Sheet N0304, Rev. -

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