

Green Products

Technical Data Data Sheet N0318, Rev. -

MUR2040WT ULTRAFAST RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

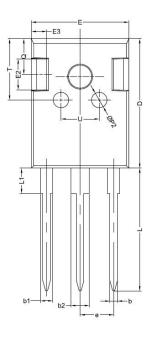
Features:

- 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

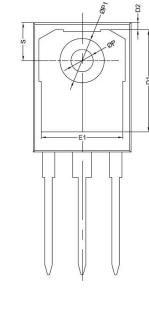
A1-

Additional testing can be offered upon request

Mechanical Dimensions: In mm/Inches



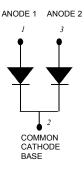
ПП



SYMBOL	MIN.	TYP.	MAX.
А	4.80	5.00	5.20
A1	2.21	2.41	2.61
A2	1.90	2.00	2.10
b	1.10	1.20	1.35
b1		2.00	
b2		3.00	
С	0.55	0.60	0.75
D	20.80	21.00	21.20
D1		16.55	
D2		1.20	
E	15.60	15.80	16.00
E1		13.30	
E2		5.00	
E3		2.50	
е		5.44	
L	19.42	19.92	20.42
L1 P		4.13	
Р	3.50	3.60	3.70
P1			7.40
P2		2.50	
Q		5.80	
Q S T	6.05	6.15	6.25
Т		10.00	
<u> </u>		6.20	

OPTION 1(HD)

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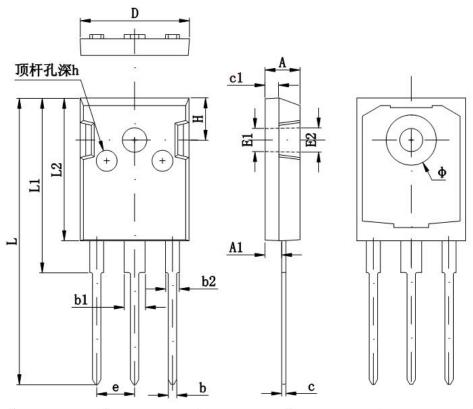




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Symbol	Dimensions	In Millimeters	Dimensions In Inches	
	Min	Max	Min	Max
А	4.850	5.150	0.191	0.200
A1	2.200	2.600	0.087	0.102
b	1.000	1.400	0.039	0.055
b1	2.800	3.200	0.110	0.126
b2	1.800	2.200	0.071	0.087
С	0.500	0.700	0.020	0.028
c1	1.900	2.100	0.075	0.083
D	15.450	15.750	0.608	0.620
E1	3.500 REF		0.138	REF
E2	3.600	REF	0.142	2 REF
Ĺ	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
е	5.450 TYP		0.215	5 TYP
Н	5.980 REF		0.235	5 REF
h	0.000	0.300	0.000	0.012

OPTION 2(CJ) TO-247AD

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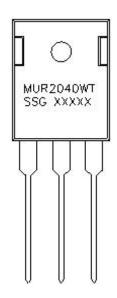


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Marking Diagram:



Where XXXXX is YYWWL

= Device Type
= Forward Current (20A)
= Reverse Voltage (400V)
= Configuration
= SSG
= Year
= Week
= Lot Number

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

Ordering Information:

Device	Package	Shipping
MUR2040WT	TO-247AD	25noo / tubo
	(Pb-Free)	25pcs / 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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	400	V
Average Forward Current (Per device)	I _{F(AV)}	50% duty cycle @Tc=100°C, rectangular wave form	20	А
Peak One Cycle Non-Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	125	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (Per leg)*	V _{F1}	@ 10A, Pulse, T」= 25°C	1.5	V
Reverse Current(Per leg)*	I _{R1}	@V _R = rated V _R T _J = 25°C	10	μA
	I _{R2}	$@V_R = rated V_R$ T _J = 125°C	500	μA
Reverse Recovery Time	trr	I_F =500mA, I_R =1A,and I_m =250mA	35	ns

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

Thermal-Mechanical Specifications:

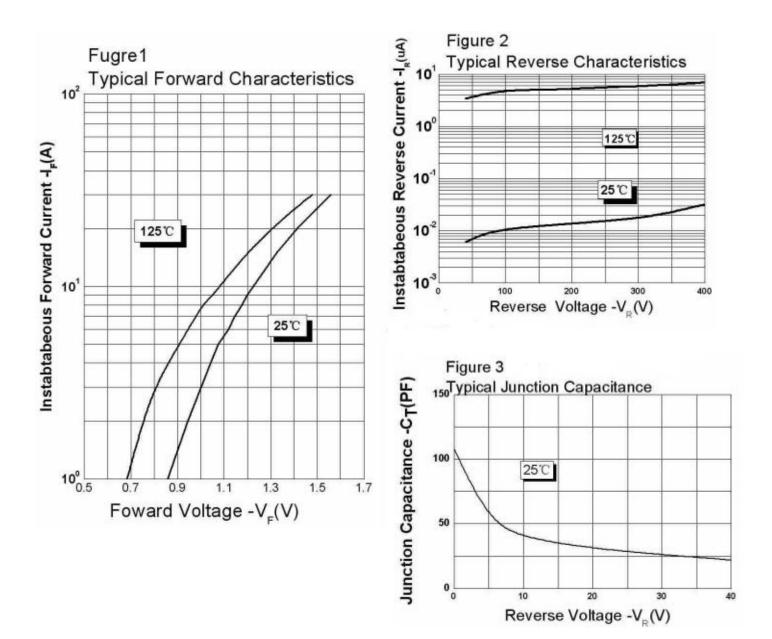
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	2	°C/W
Approximate Weight	wt	-	6.7	g
Case Style	TO-247AD			

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