

Green Products

MUR6040WT ULTRAFAST PLASTIC RECTIFIER

Applications:

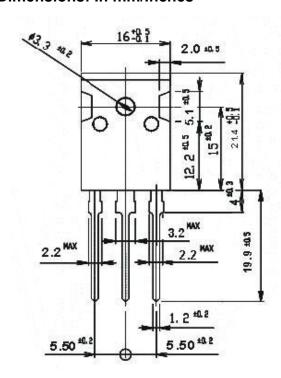
- Switching Power Supply
- Power Switching Circuits
- General Purpose

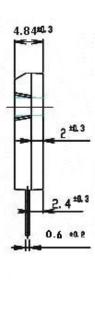
Features:

- 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

ANODE 1 ANODE 2 I 3 COMMON CATHODE

Mechanical Dimensions: In mm/Inches



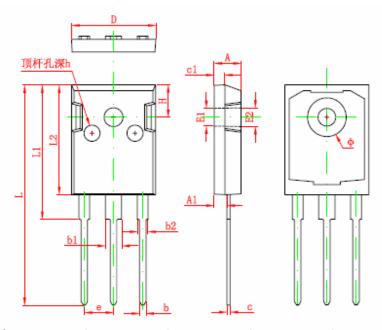


OPTION 1(SR)

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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	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 REF		0.142 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
е	5.450 TYP		0.215 TYP	
Н	5.980 REF		0.235 REF	
h	0.000	0.300	0.000	0.012

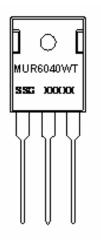
OPTION 2(CJ)

TO-247AD



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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

60 = Forward Current (60A) 40 = Reverse Voltage (400V)

WT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MUR6040WT	TO-247AD	20 pag / tuba	
WOR6040VVI	(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}	-	400	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	60	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse @T _J =45°C	230	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage	V_{F1}	@ 30A, Pulse, T _J = 25°C	1.7	V
Drop(Per leg)*	V_{F2}	@ 30A, Pulse, T _J = 150°C	1.5	V
	I _{R1}	@V _R = rated V _R	50	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	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_m =250mA	45	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	$R_{\theta JC}$	DC operation	2	°C/W
Resistance Junction to Case				
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		





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