

Green Products

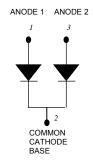
MUR2060WT ULTRAFAST PLASTIC RECTIFIER

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 / Inches

E — A — A	0.002"
- 300° - REF Q	ØS ØP
1.55mm REF (3X) 0.070° REF b ₁ b ₂ c	
⊥ V1 V2 V3 H e- - A ₁	3 U 2 W 1U BACK VIEW

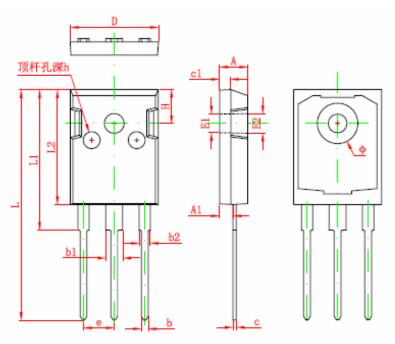
Dimensio		ions In	ons In Dimensions I		
Symbol	Millimeters		Inches		
	Min	Max	Min	Max	
Α	4.58	4.82	0.180	0.190	
A1	2.29	2.66	0.090	0.105	
b	1.17	1.35	0.046	0.053	
b1	1.53	1.77	0.060	0.070	
b2	2.42	2.66	0.095	0.105	
С	0.51	0.71	0.020	0.028	
D	20.32	20.82	0.800	0.820	
E	15.37	15.87	0.605	0.625	
е	5.56 BSC.		0.219BSC		
L	15.75	16.25	0.620	0.640	
L1	3.69	3.93	0.145	0.155	
ØP	3.51	3.65	0.138	0.144	
Q	5.34	5.58	0.210	0.220	
ØR	4.96	5.20	0.195	0.205	
øs	6.61	6.85	0.260	0.270	

OPTION 1 (MX)

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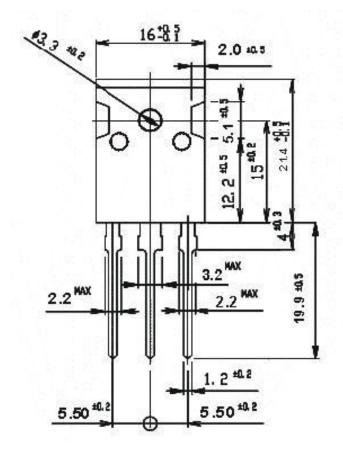
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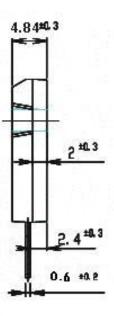


C. mah ad	Dimensions	In Millimeters	Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	4.850	5.150	0.191	0.200
A1	2.200	2.600	0.087	0.102
b	1.000	1.400	0.039	0.055
b1	2.800	3.200	0.110	0.126
b2	1.800	2.200	0.071	0.087
С	0.500	0.700	0.020	0.028
c1	1.900	2.100	0.075	0.083
D	15.450	15.750	0.608	0.620
E1	3.500 REF		0.138 REF	
E2	3.600	3.600 REF		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	5.450 TYP 0.215 TYP		TYP
Н	5.980	980 REF 0.235 REF		REF
h	0.000	0.300	0.000	0.012

OPTION 2 (CJ)

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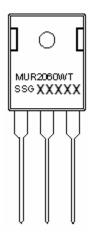
OPTION 3(SR)

TO-247AD



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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

20 = Forward Current (20A) 60 = Reverse Voltage (600V)

WT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR2060WT	TO-247AD	20 pag / tuba
	(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}	-	600	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	20	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage	V_{F1}	@ 10A, Pulse, T _J = 25°C	2.2	V
Drop(Per leg)*	V_{F2}	@ 10A, Pulse, T _J = 100°C	2.0	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	5	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	50	μΑ
Max. Reverse Recovery Time	t _{rr}	I _F =500mA, I _R =1A,and I _{rm} =250mA	50	ns

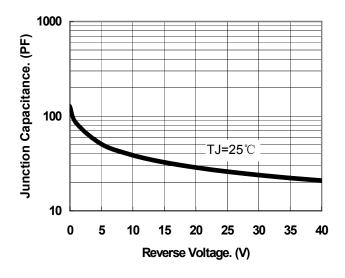
• Pulse width $< 300 \,\mu s$, duty cycle < 2%

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	$R_{ heta JC}$	DC operation	4	°C/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		



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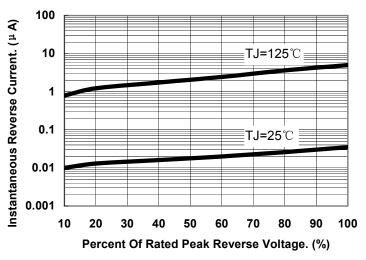


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

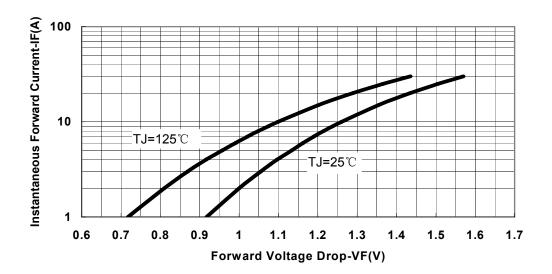
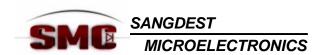


Fig.3-Typical Forward Voltage Drop Characteristics

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