

Green Products

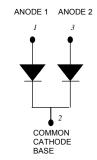
MUR2040WT ULTRAFAST PLASTIC RECTIFIER

Applications:

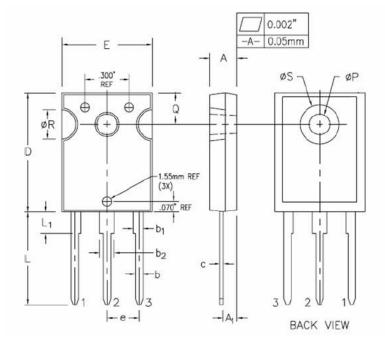
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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



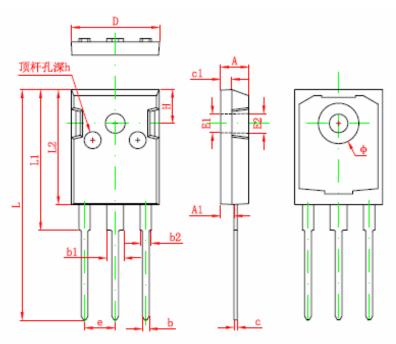
	Dimensions In		Dimensions In		
Symbol	Millimeters		Inches		
	Min	Max	Min	Max	
Α	4.58	4.82	0.180	0.190	
A1	2.29	2.66	0.090	0.105	
b	1.17	1.35	0.046	0.053	
b1	1.53	1.77	0.060	0.070	
b2	2.42	2.66	0.095	0.105	
С	0.51	0.71	0.020	0.028	
D	20.32	20.82	0.800	0.820	
E	15.37	15.87	0.605	0.625	
е	5.56 BSC.		0.219BSC		
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)

[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

[•] FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •

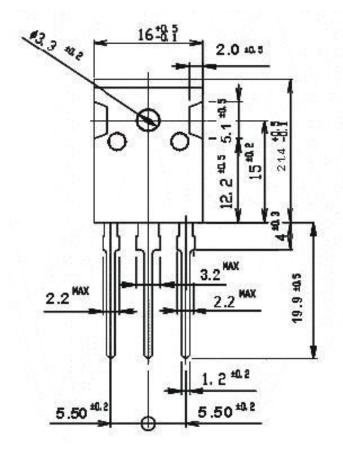
Green Products

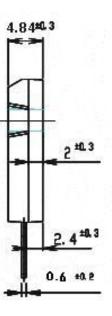


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	4.850	5.150	0.191	0.200
A1	2.200	2.600	0.087	0.102
b	1.000	1.400	0.039	0.055
b1	2.800	3.200	0.110	0.126
b2	1.800	2.200	0.071	0.087
С	0.500	0.700	0.020	0.028
c1	1.900	2.100	0.075	0.083
D	15.450	15.750	0.608	0.620
E1	3.500	0.138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

OPTION 2 (CJ)

Green Products





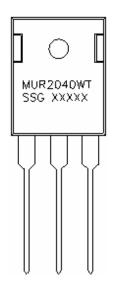
OPTION 3(SR)

TO-247AD



Green Products

Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

20 = Forward Current (20A) 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
MUR2040WT	TO-247AD	30 pcs / tube
WORZU4UW I	(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	20	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	125	А

[•] Weigi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

[•] FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



Green Products

Electrical Characteristics:

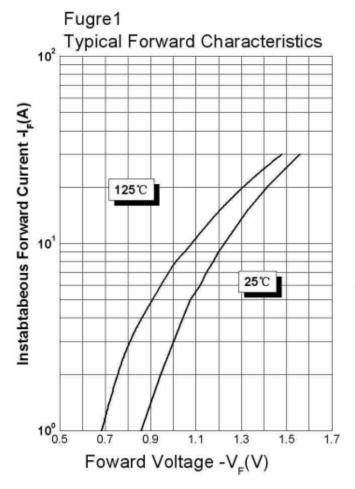
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 10A, Pulse, T _J = 25°C	1.5	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	10	μΑ
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	500	μΑ
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	35	ns

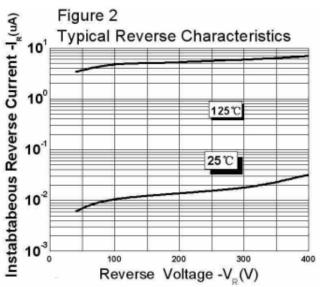
Pulse width $< 300 \,\mu s$, duty cycle < 2%

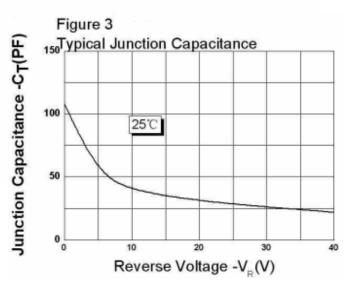
Thermal-Mechanical Specifications:

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	$R_{\theta JC}$	DC operation	2	°C/W
Approximate Weight	wt	-	6.7	g
Case Style		TO-247AD		

Green Products







[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

[•] FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •





Green Products

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Sangdest Microelectronics (Nanjing) Co., Ltd sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall SMC Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Sangdest Microelectronics (Nanjing) Co., Ltd assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall SMC Sangdest Microelectronics (Nanjing) Co., Ltd be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Sangdest Microelectronics (Nanjing) Co., Ltd.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Sangdest Microelectronics (Nanijing) Co., Ltd.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..

[•] FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •