

Technical Data Data Sheet N0176, Rev. A **Green Products**

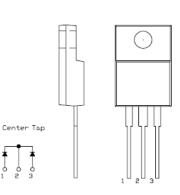
MURF1040CT ULTRAFAST PLASTIC RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

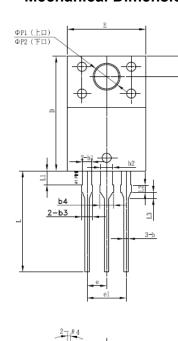
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

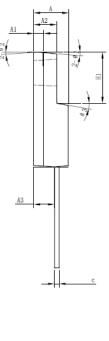


OUTLINE DRAWING

Mechanical Dimensions: In mm

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SYMBOL	MIN.	TYP.	MAX.
А	4.30	4.50	4.70
A1	1.10	1.30	1.50
A2	2.80	3.00 2.70	3.20 2.90
A3	2.50	2.70	2.90
b	0.50	0.60	0.75
b1	1.10	1.20	1.35 1.75
b2	1.50	1.60	
b3	1.20	1.30	1.45
b4	1.60	1.70	1.85
C D	0.55	0.60	0.75
	14.80	15.00	15.20
E	9.96	10.16	10.36
е		2.55	
e1		5.10 6.70	
H1	6.50	6.70	6.90
L	12.70	13.20	13.70
L1	1.60	1.80	2.00 1.20
L2	0.80	1.00	1.20
L3	0.60	0.80	1.00
ΦΡ1(上口)	3.30	3.50	3.70
ΦΡ2 (下口)	3.30 2.99	3.19	3.39
Q	2.50	2.70	2.90
Θ1		5°	
Θ2		4°	
Θ3		10°	
Θ4		5°	
Θ5		5°	

ITO-220AB

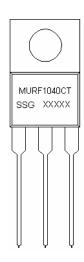
Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 (86) 25-87123907 •
FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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Marking Diagram:



Where XXXXX is YYWWL

MUR	= Device Type
F	= Package type
10	= Forward Current (10A)
40	= Reverse Voltage (400V)
СТ	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MURF1040CT	ITO-220AB	50pcs / tube
	(Pb-Free)	

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
Average Forward Current	lo _(AV)	50% duty cycle @Tc=86°C, rectangular wave form	10	A
Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3ms, Half Sine pulse	80	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (per leg)	V _F	@ I _F = 5A, Pulse, T _J = 25℃	1.7	V
Reverse Current	I _{R1}	@V _R = rated V _R T _J = 25℃	10	μA
	I _{R2}	@V _R = rated V _R T _J = 150℃	500	μA
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
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	R _{0JC}	DC operation	3.5	℃ /W
Resistance Junction to Case				
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		



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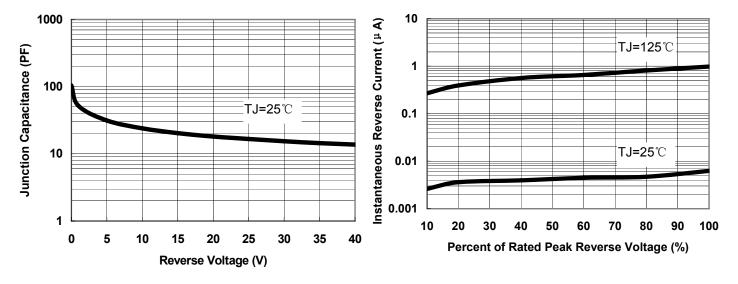




Fig.2-Typical Reverse Characteristics

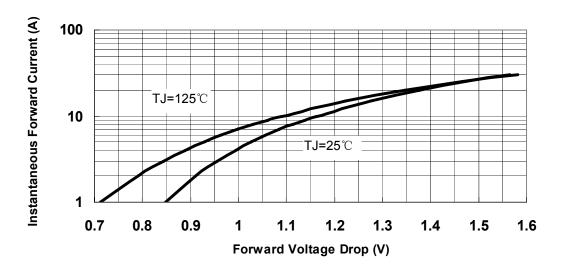


Fig.3-Typical Instantaneous Forward Voltage Characteristics



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