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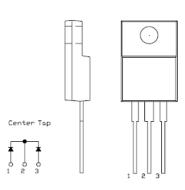
## **MURF1660CT ULTRAFAST PLASTIC RECTIFIER**

## **Applications:**

- Switching Power Supply
- Power Switching Circuits
- General Purpose

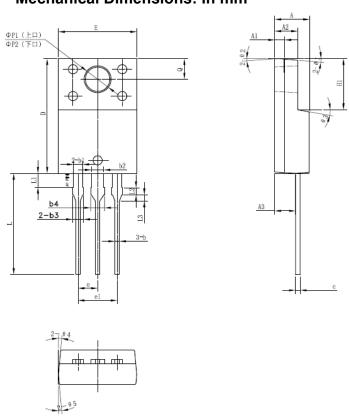
### Features:

- 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**



SYMBOL	MIN.	TYP.	MAX.
Α	4.30	4.50	4.70
	1.10	1.30 3.00 2.70 0.60 1.20	1 50
A2	2.80	3.00	3.20
A1 A2 A3 b	2.50	2.70	2.90
b	0.50	0.60	0.75
b1	0.50 1.10	1.20	1.35
b2	1.50	1.60	3.20 2.90 0.75 1.35
b3	1.20	1.30	1.45
b4	1.60	1.70	1.85
b4 c D E	0.55	0.60	0.75
D	14.80	15 00	15.20
Е	9.96	10.16	10.36
е		2.55	
e1		5.10	
e1 H1 L L1	6.50	10.16 2.55 5.10 6.70	6.90
L	12.70 1.60	13.20 1.80	13.70 2.00
L1	1.60	1.80	2.00
L2	0.80 0.60	1.00	1.20 1.00 3.70
L3	0.60	0.80	1.00
<b>ΦP1(</b> 上□)	3.30	3 50	3.70
<b>ΦP2</b> (下□)	2.99	3.19	3.39
Q	2.50	2.70	2.90
Q Q Θ1		5°	
Θ2 Θ3 Θ4		3.19 2.70 5° 4° 10°	
Θ3		10°	
Θ4		5°	
Θ5		5°	

## **ITO-220AB**

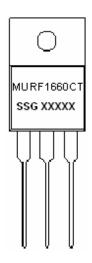
<sup>•</sup> Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

<sup>•</sup> 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

16 = Forward Current (16A) 60 = Reverse Voltage (600V)

CT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping	
MURF1660CT	ITO-220AB	50pcs / tube	
	(Pb-Free)	50pcs / 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 <sub>F (AV)</sub>	50% duty cycle @Tc=90°C, rectangular wave form	16	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I <sub>FSM</sub>	8.3ms, Half Sine pulse	110	A

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## **Electrical Characteristics:**

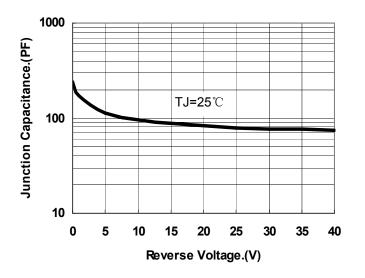
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop* (per leg)	$V_{F1}$	@ 8A, Pulse, T <sub>J</sub> = 25°C	2.2	V
Max. Reverse Current*	I <sub>R1</sub>	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	5	μΑ
	I <sub>R2</sub>	$@V_R = \text{rated } V_R$ $T_J = 150$ °C	500	μA
Max. Reverse Recovery Time	t <sub>rr</sub>	$I_F$ =500mA, $I_R$ =1A,and $I_{rm}$ =250mA	50	ns
RSM Isolation Voltage (t=1.0 second,R.H.< =30%, T <sub>A</sub> =25°C)		Clip mouting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	4500	
	V <sub>1so</sub>	Clip mouting, the epoxy body is inside the heatsink	3500	V
		Screw mounting, the epoxy body is inside the heatsink	1500	

<sup>\*</sup> 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 <sub>stg</sub>	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	5.0	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		

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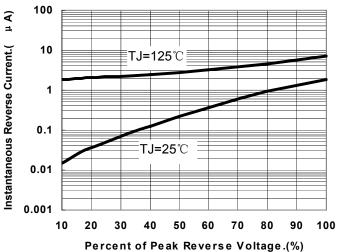


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

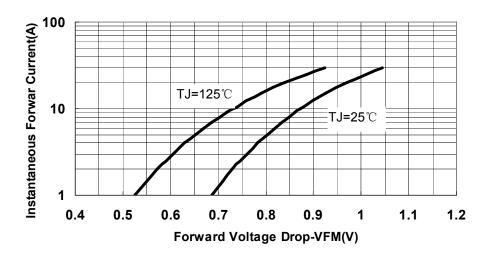


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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## MURF1560CT

Technical Data
Data Sheet N0351, Rev. -

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