

**Green Products** 

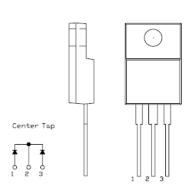
# **MURF1620CT ULTRAFAST PLASTIC RECTIFIER**

## **Applications:**

- **Switching Power Supply**
- **Power Switching Circuits**
- **General Purpose**

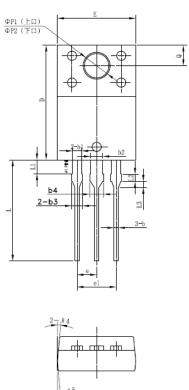
#### Features:

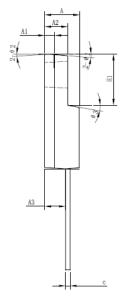
- **Ultra-Fast Switching**
- **High Current Capability**
- **Low Reverse Leakage Current**
- **High Surge Current Capability**
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon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



**OUTLINE DRAWING** 

#### **Mechanical Dimensions: In mm**







SYMBOL	MIN.	TYP.	MAX.	
Α	4.30	4.50	4.70	
A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
A3	2.50	2.70	2.90	
b	0.50	0.60	0.75	
A1 A2 A3 b	1.10	1.20	1.35	
b2	1.10 1.50	3.00 2.70 0.60 1.20 1.60	3.20 2.90 0.75 1.35 1.75	
b3	1.20	1.30	1.45	
b4	1.60	1.70	1.85	
С	0.55	0.60	0.75	
b4 c D E	14.80	15.00 10.16	0.75 15.20	
Е	9.96	10.16	10.36	
e e1		2.55		
e1		5.10		
H1 L	6.50	2.55 5.10 6.70 13.20	6.90	
L	12.70	13.20	13.70	
L1 L2 L3	1.60	1.80 1.00 0.80	2.00	
L2	0.80	1.00	1.20	
L3	0.60	0.80	2.00 1.20 1.00 3.70	
<b>ΦP1</b> ( ├ □ )	3.30	3.50 3.19	3.70	
ΦP2(下口)	2.99	3.19	3.39	
Q	2.50	2 70	2.90	
Θ1		5° 4° 10°		
Θ2 Θ3		4°		
Θ3		10°		
Θ4		5° 5°		
Θ5		5°		

#### **ITO-220AB**

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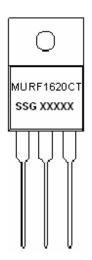
<sup>•</sup> FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •





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# **Marking Diagram:**



Where XXXXX is YYWWL

MUR = Device Type F = Package type

16 = Forward Current (16A) 20 = Reverse Voltage (200V)

CT = Configuration

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping	
MURF1620CT	ITO-220AB	FOnce / 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.

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## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MURF1620CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	200	V
Average Rectified Output Current @T <sub>A</sub> = 55°C	lo	16.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	125	А
Forward Voltage (per element) @I <sub>F</sub> = 8.0A, T <sub>J</sub> =25°C	$V_{\text{FM1}}$	1.5	V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C	I <sub>R</sub>	10 500	μA
Maximum Reverse Recovery Time (Note 1)	Trr	35	ns
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	80	pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C
Approximate Weight	wt	2.0	g
Case Style	ITO-220AB		

Note: 1.Measured with  $I_F$ =0.5A;  $I_R$ =1.0A;  $I_{RR}$ =0.25A.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

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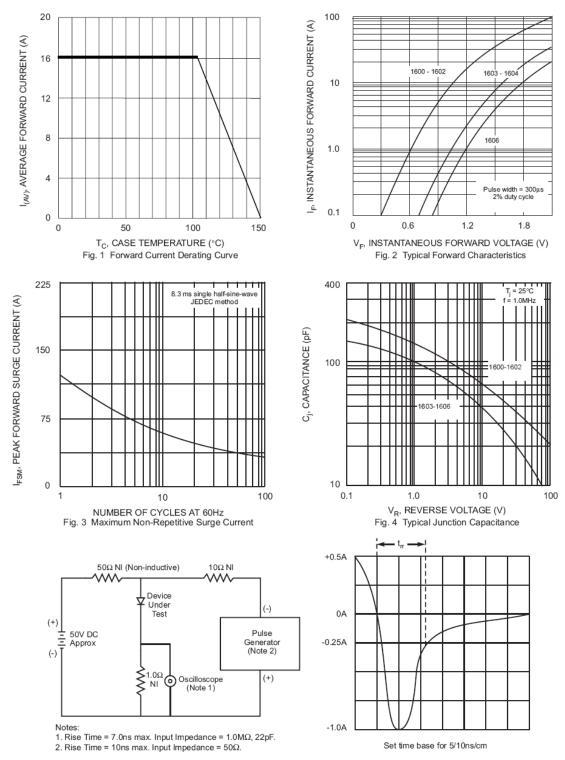


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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#### MURF1620CT

# Technical Data Data Sheet N0352, Rev. -

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