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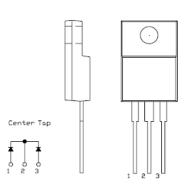
MURF1560CT ULTRAFAST PLASTIC RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

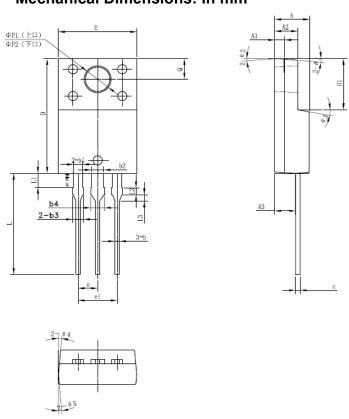
Features:

- 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 A2 A3	1.10	1.30 3.00 2.70 0.60 1.20	1 50
A2	2.80	3.00	3.20
A3	2.50	2.70	2.90
b b1	0.50 1.10	0.60	0.75
b1	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 0.60	1.85 0.75
b4 c D E e	0.55	0.60	0.75
D	14.80	15.00 10.16 2.55 5.10	15.20
E	9.96	10.16	10.36
е		2.55	
e1		5.10	
e1 H1 L L1	6.50	6.70	6.90
L	12.70	13.20 1.80	13.70 2.00
L1	1.60	1.80	2.00
L2	0.80 0.60	1.00	1.20
L3	0.60	0.80	1.00
ΦP1(남.口)	3.30	3.50	1.20 1.00 3.70
ΦP2 (下口)	2.99	3.19 2.70	3.39
Q Θ1	2.50	2.70	2.90
Θ1		5°	
Θ2		5° 4° 10° 5°	
Θ3 Θ4		10°	
Θ4		5°	
Θ5		5°	

ITO-220AB

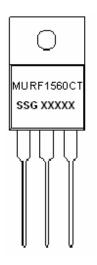
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type F = Package type

= Forward Current (15A) = 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
MURF1560CT	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.

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	15	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	Α

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Electrical Characteristics:

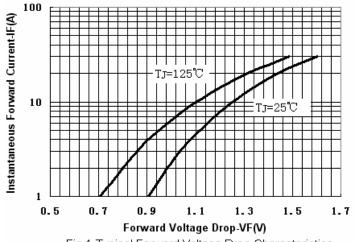
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop* (per leg)	V_{F1}	@ 7.5A, Pulse, T _J = 25°C	1.7	V
	V_{F2}	@ 7.5A, Pulse, T _J = 100°C	1.5	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	5	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 100^{\circ}C$	50	μA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns
RSM Isolation Voltage (t=1.0 second,R.H.< =30%,		Clip mouting, the epoxy body away from the heatsink edge by more than 0.110" along the lead direction.	4500	
T _A =25°C)	V _{1so}	Clip mouting, the epoxy body is inside the heatsink	3500	V
		Screw mounting, the epoxy body is inside the heatsink	1500	

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.0	°C/W
Approximate Weight	wt	-	2	g
Case Style		ITO-220AB		

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0.001 0.0001 0.00001 0.00001 100 200 300 400 500 600 Reverse Voltage-VR(V)

Fig.1-Typical Forward Voltage Drop Characteristics

Fig.2-Typical Values of Reverse Current Vs. Reverse Voltage

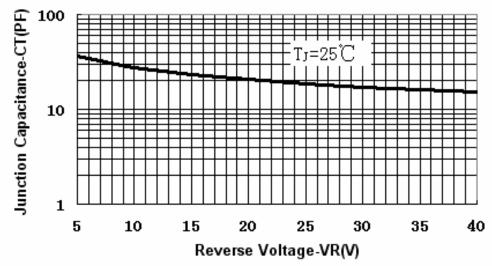


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage

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MURF1560CT

Technical Data Data Sheet N0351, Rev. -

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