

Technical Data Data Sheet N0353, Rev. - **Green Products**

MURF1640CT ULTRAFAST PLASTIC RECTIFIER

Applications:

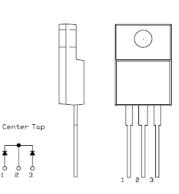
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

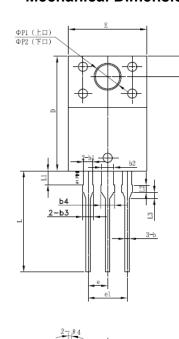
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability

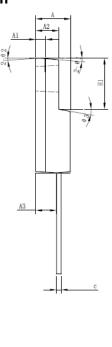
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- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions: In mm





SYMBOL	MIN.	TYP.	MAX.
A	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	3.20 2.90 0.75
b1	1.10	1.20	1.35
b2	1.50	1.60	1.75
b3	1.20	1.30	1.45
b4	1.60	1.70	1.85
C D	0.55	0.60	0.75
D	14.80	15.00	15.20
E	9.96	10.16	10.36
е		2.55 5.10	
e1		5.10	
H1	6.50	6.70	6.90
L	12.70	13.20	13.70
L1	1.60	1.80	2.00
L2	0.80	1.00	13.70 2.00 1.20
L3	0.60	0.80	1.00
ΦΡ1(上口)	3.30	3.50	1.00 3.70
ΦΡ2 (下口)	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

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on request

OUTLINE DRAWING



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Where XXXXX is YYWWL

= Device Type

= Package type

= Configuration

= Lot Number

= SSG

= Year

= Week

= Forward Current (16A)

= Reverse Voltage (400V)

MUR

F

16

40

СТ

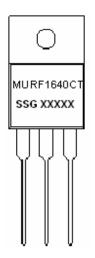
YΥ

L

WW

SSG

Marking Diagram:



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

Ordering Information:

Device	Package	Shipping
MURF1640CT	ITO-220AB (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}	-	400	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=55°C, rectangular wave form	16	A
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	80	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop* (Per leg)	V _{F1}	@8A, Pulse, T _J = 25°C	1.3	V
Max. Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25°C	10	μA
(Per leg)	I _{R2}	$@V_R = rated V_R$ T _J = 150°C	500	μA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

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

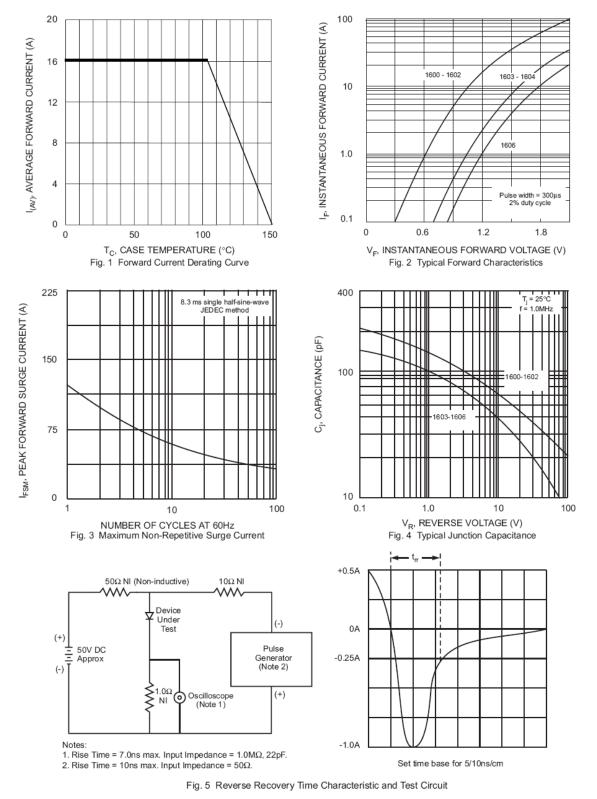
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	5.0	°C/W
Approximate Weight	wt	-	2.0	g
Case Style		ITO-220AB		



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MICROELECTRONICS

MURF1640CT

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