

Technical Data Data Sheet N0341, Rev. A **Green Products**

MURF560 ULTRAFAST PLASTIC RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

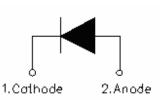
Features:

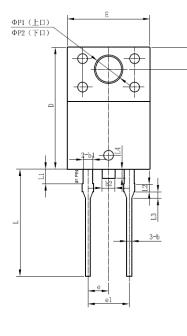
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot

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Additional testing can be offered upon request

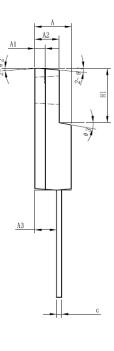
Mechanical Dimensions: In mm





mh.

- 0,5



SYMBOL	MIN.	TYP.	MAX.
А	4.30 4.50		4.70
A1	1.10 1.30		1.50
A2 A3	2.80	1.30 3.00	3.20 2.90
A3	2.50	2.70	2.90
b	0.50	0.60	0.75
b1	1.10	1.20	0.75 1.35
b2	1.50	1.60	1.75
С	0.55	0.60	0.75
D E	14.80	15.00	15.20
E	9.96	10.16	10.36
е	-	2.55	-
e1	-	5.10	-
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
L4	-	1.10	1.50
ΦP1(上口)	3.30	3.50	3.70 3.39
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-220AC(HD)

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Marking Diagram:



Where XXXXX is YYWWL

MUR	= Device Type
F	= Package type
5	= Forward Current (5A)
60	= Reverse Voltage (600V)
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	ce Package	
MURF560	ITO-220AC	Elnos / tubo
	(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
Average Forward Current	IO _(AV)	50% duty cycle @Tc=90°C, rectangular wave form	5	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℃	1.75	V
Reverse Current	I _{R1}	@V _R = rated V _R T _J = 25℃	2	μA
(Per leg)*	I _{R2}	@V _R = rated V _R T _J = 150℃	500	μA
Reverse Recovery Time (Per leg)*	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	30	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 Resistance Junction to Case	R _{θJC}	DC operation	3	°C/W
Approximate Weight	wt	-	1.6	g
Case Style		ITO-220AC		

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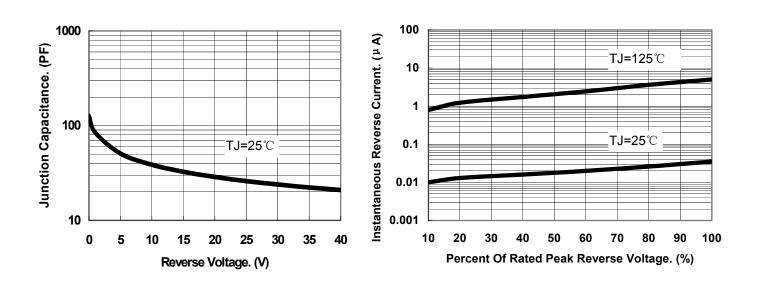
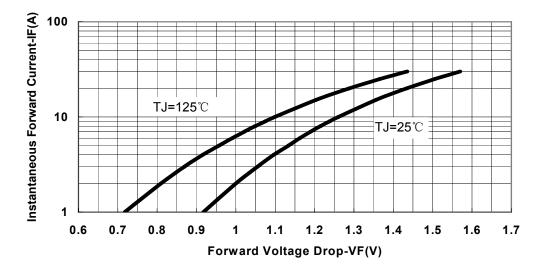




Fig.2-Typical Reverse Characteristics





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