

Green Products

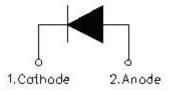
MURF860 ULTRAFAST RECTIFIER

Applications:

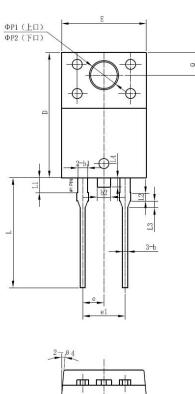
- Switching Power Supply
- Power Switching Circuits
- General Purpose

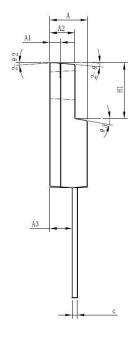
Features:

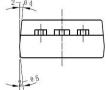
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



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	
b1	1.10	1.20	1.35	
b2	1.50	1.60	1.75	
С	0.55	0.60	0.75	
D	14.80	15.00	15.20	
C D E 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 L2 L3	1.60	1.80	2.00	
L2	0.80	1.00	1.20	
L3	0.60	0.80	2.00 1.20 1.00	
L4	-	1.10	1.50	
ΦP1(上口)	3.30	3.50	3.70	
ΦP2(下口)	2.99	3.19	3.39	
Q	2.50	2.70	2.90	
Q Θ1		5°		
Θ2		4°		
Θ3 Θ4		l 10°		
Θ4		5°		
Θ5		5°		

ITO-220AC(HD)

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type
F = Package type
8 = Forward Current (8A)
60 = Reverse Voltage (600V)

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MURF860	ITO-220AC	50pcs / tube	
	(Pb-Free)	'	

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 @TA=25°C unless otherwise specified

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

Characteristic	Symbol	MURF860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	420	V
Average Rectified Output Current @T _A = 55°C	lo	8.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	110	А
Forward Voltage (per element) @I _F = 8.0A, T _J =25°C	V _{FM1}	2.2	V
@I _F = 8.0A, T _J =100°C	V_{FM2}	2.0	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5 50	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	50	ns
Max. Voltage Rate of Change	dv/dt	10,000	V/µs
Typical Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	25	K/W
Storage Temperature Range	T _{STG} , T _J	-55 to +150	°C
Approximate Weight	wt	1.6	g
Case Style	ITO-220AC		

Note: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

^{2.} Mount on Cu-Pad Size 16mm×16mm on P.C.B.

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Technical Data Data Sheet N0344, Rev. A **Green Products**

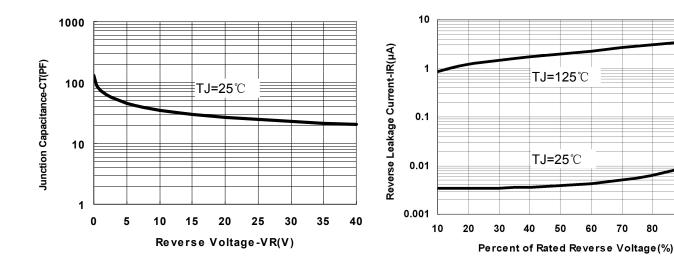


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

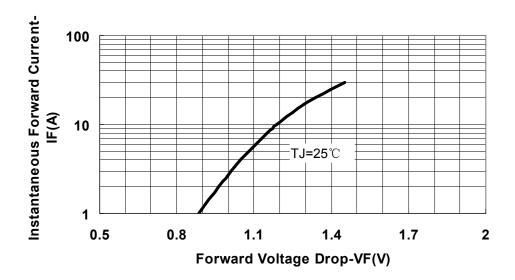


Fig.3-Typical Forward Voltage Drop Characteristics

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