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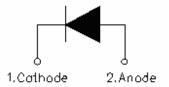
MUR860 ULTRAFAST PLASTIC RECTIFIER

Applications:

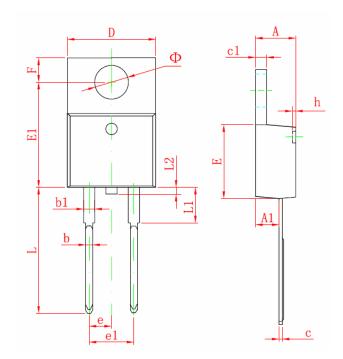
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Utra-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	Dimensions In Millimeters		
	Min	Max	
Α	4.470	4.670	
A1	2.520	2.820	
b	0.710	0.910	
b1	1.170	1.370	
С	0.310	0.530	
c1	1.170	1.370	
D	10.010	10.310	
E	8.500	8.900	
E1	12.060	12.460	
е	2.540 TYP		
e1	4.980	5.180	
F	2.590	2.890	
h	0.000	0.300	
L	13.400	13.800	
L1	3.560	3.960	
L2		1.000	
Ф	3.735	3.935	

TO-220AC

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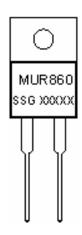
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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device 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	
MUR860	TO-220AC	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_A=25°C unless otherwise specified

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

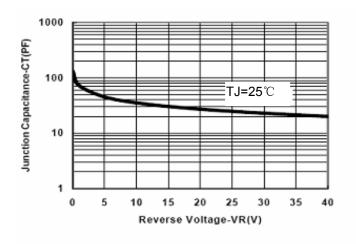
Characteristic	Symbol	MURF860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	600	V
Average Rectified Output Current @T _A = 100°C	lo	8	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave 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
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	5.0 50	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	50	ns
Typical Thermal Resistance Junction to Ambient (Note 2)	Reja	25	K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C
Approximate Weight	wt	1.6	g
Case Style		TO-220AC	

Note: 1.Measured with I_F =0.5A; I_R =1.0A; I_{RR} =0.25A. 2. Mount on Cu-Pad Size 16mm×16mm on P.C.B.

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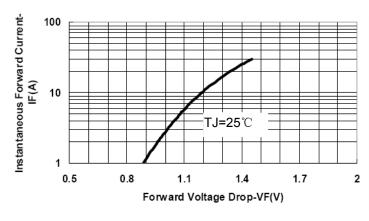
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10 Reverse Leakage Current-IR(µA) TJ=125℃ 0.1 TJ=25℃ 0.01 0.001 10 20 30 40 50 60 70 80 90 100 Percent of Rated Reverse Voltage(%)

Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics



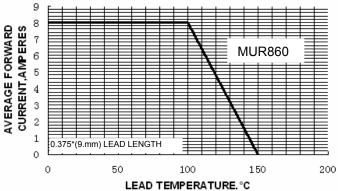


Fig.3-Typical Forward Voltage Drop Characteristics

Fig.4-Forward Current Derating Curve

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MUR860

Technical Data Data Sheet N276, Rev. - **Green Products**

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