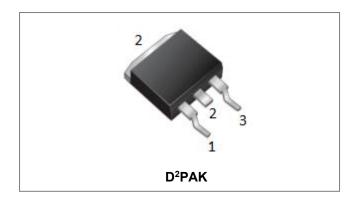






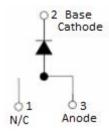
MURB860 ULTRAFAST RECTIFIER



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

Circuit Diagram



Applications

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	600	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=55°C, rectangular wave form	8	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	110	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 8A, Pulse, T _J = 25°C	1.15	2.2	V
	V _{F2}	@ 8A, Pulse, T _J = 125°C	-	2.0	V
Reverse Current*	I _{R1}	@V _R = rated V _R , T _J = 25°C	0.02	5	μA
	I _{R2}	@V _R = rated V _R , T _J = 125°C	4	50	μA
Reverse Recovery Time	t _{rr}	I _F =500mA, I _R =1A,and I _m =250mA	45	50	ns

^{*} Pulse width < 300 µs, duty cycle < 2%

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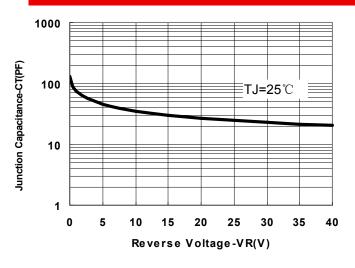




Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Ambient	R ₀ JA	DC operation	5	°C/W
Approximate Weight	wt	-	1.85	g
Case Style	D ² PAK			

Ratings and Characteristics Curves



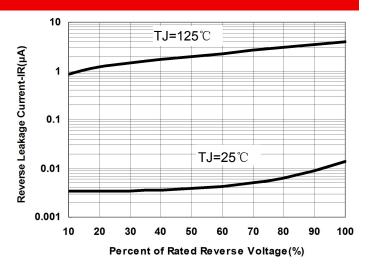


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

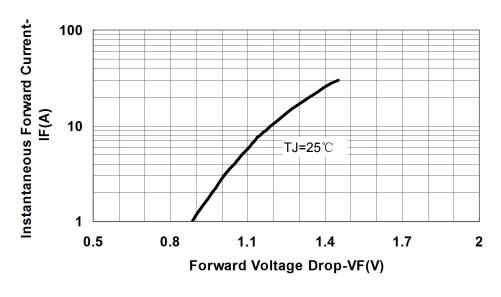


Fig.3-Typical Forward Voltage Drop Characteristics

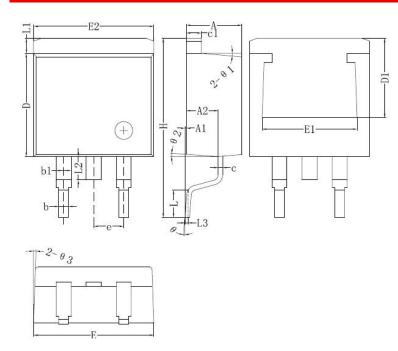
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Mechanical Dimensions D²PAK



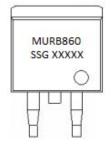
Symbol	Dimensions in millimeters		
	Min.	Typical	Max.
Α	4.47	4.70	4.85
A1	0	0.10	0.25
A2	2.59	2.69	2.89
b	0.71	0.81	0.96
b1	1.17	1.27	1.37
С	0.31	0.38	0.61
c1	1.17	1.27	1.37
D	8.50	8.70	8.90
D1	6.40		
E	10.01	10.16	10.31
E1	7.6		
E2	9.98	10.08	10.31
е		2.54	
Н	14.6	15.1	15.6
L	2.00	2.30	2.74
L1	1.12	1.27	1.42
L2	1.30		2.20
L3		0.25BSC	
е	0	-	8°
e1		5°	
e2		4°	
e3		4°	

Ordering Information

Device	Package	Shipping	
MURB860	D ² PAK	800pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

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

 SSG
 = SSG

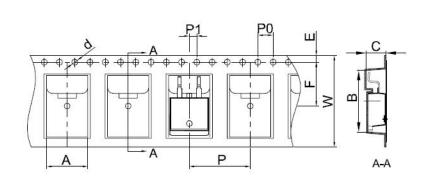
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

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

Carrier Tape Specification D²PAK



SYMBOL	Millimeters		
STINIBUL	Min.	Max.	
Α	10.70	10.90	
В	16.03	16.23	
С	5.11	5.31	
d	1.45	1.65	
E	1.65	1.85	
F	11.40	11.60	
P0	3.90	4.10	
Р	15.90	16.10	
P1	1.90	2.10	
W	23.90	24.30	

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