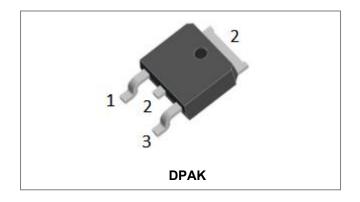


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Technical Data Data Sheet N0335, Rev. A



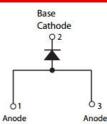
MURD860 ULTRAFAST RECTIFIER



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	lf (AV)	50% duty cycle @T _A =100°C, rectangular wave form	8	А
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		1.12	2.2	V
	V _{F2}	@ 8A, Pulse, T」 = 100℃	-	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 = 100 $^{\circ}$ C	-	50	μA
Reverse Recovery Time	t _{rr}	t _{rr} I _F =500mA, I _R =1A,and I _{rm} =250mA 45 50		ns	

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

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Technical Data Data Sheet N0335, Rev. A

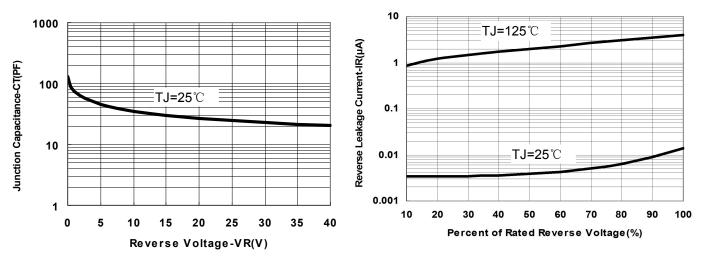
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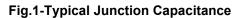
RoHS 🗭

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 _{0JA}	DC operation	25	°C/W
Approximate Weight	wt	-	0.39	g
Case Style	DPAK			

Ratings and Characteristics Curves







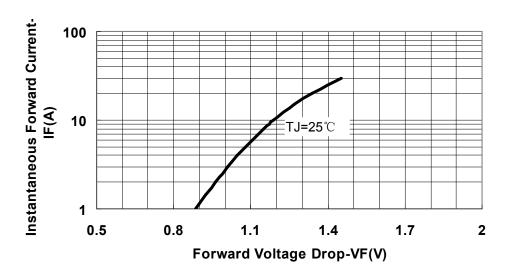


Fig.3-Typical Forward Voltage Drop Characteristics

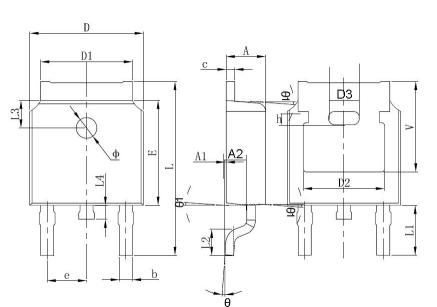


Technical Data Data Sheet N0335, Rev. A

MURD860



Mechanical Dimensions DPAK



SYMBOL	Millim	neters	Inches	
STWBOL	Min.	Max.	Min.	Max.
A	2.20	2.40	0.087	0.094
A1	0.00	0.127	0.000	0.005
b	0.66	0.86	0.026	0.034
с	0.46	0.60	0.018	0.024
D	6.50	6.70	0.256	0.264
D1	5.13	5.46	0.202	0.215
D2	4.83 REF.		0.190 REF.	
E	6.00	6.20	0.236	0.244
е	2.186	2.386	0.086	0.094
L	9.70	10.40	0.381	0.409
L1	2.90 REF.		0.144 REF.	
L2	1.40	1.70	0.055	0.067
L3	1.60 REF.		0.063 REF.	
L4	0.60	1.00	0.024	0.039
Φ	1.10	1.30	0.043	0.051
Θ	0°	8°	0°	8°
h	0.00	0.30	0.000	0.012
V	5.35 REF.		0.211	REF.

Ordering Information

Device	Package	Shipping	
MURD860	DPAK (Pb-Free)	2500pcs / 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

D

8

60

SSG

YΥ

L

WW

- = Device Type = Package type
- = Forward Current (8A)
- = Reverse Voltage (600V)

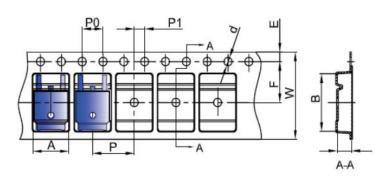
= SSG = Year

= Week

= Lot Number

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

Carrier Tape Specification DPAK



SYMBOL	Millimeters		
STNIBOL	Min.	Max.	
А	6.80	7.00	
В	10.40	10.60	
С	2.60	2.80	
d	Φ1.45	Φ1.65	
E	1.65	1.85	
F	7.40	7.60	
P0	3.90	4.10	
Р	7.90	8.10	
P1	1.90	2.10	
W	15.90	16.30	

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Technical Data Data Sheet N0335, Rev. A





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