imall

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Power Rectifier

D²PAK Power Surface Mount Package

Designed for use in switching power supplies, inverters and as free wheeling diodes, these state-of-the-art devices have the following features:

Features

- Package Designed for Power Surface Mount Applications
- Ultrafast 35 Nanosecond Recovery Times
- 175°C Operating Junction Temperature
- Epoxy Meets UL 94 V-0 @ 0.125 in
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600 V
- Low Leakage Specified @ 150°C Case Temperature
- Short Heat Sink Tab Manufactured Not Sheared!
- Similar in Size to Industry Standard TO-220 Package
- Case: Epoxy, Molded
- Weight: 1.7 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Pb–Free Packages are Available

MAXIMUM RATINGS (Per Leg)

Rating	Symbol	ymbol Value		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	600	V	
Average Rectified Forward Current (Rated V_R , T_C = 120°C) Total Device	I _{F(AV)}	4.0 8.0	A	
Peak Repetitive Forward Current (Rated V _R , Square Wave, 20 kHz, T_{C} = 120°C)	I _{FM}	8.0	A	
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	100	A	
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-65 to +175	°C	

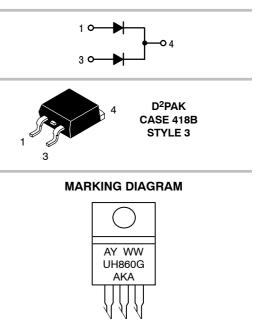
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

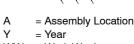


ON Semiconductor®

http://onsemi.com

ULTRAFAST RECTIFIER 8.0 AMPERES, 600 VOLTS





WW = Work Week

G = Pb-Free Package

AKA = Diode Polarity

ORDERING INFORMATION

Device	Package	Shipping [†]
MURHB860CT	D ² PAK	50 Units/Rail
MURHB860CTG	D ² PAK (Pb–Free)	50 Units/Rail
MURHB860CTT4	D ² PAK	800/Tape & Reel
MURHB860CTT4G	D ² PAK (Pb–Free)	800/Tape & Reel

+ For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

Semiconductor Components Industries, LLC, 2011 August, 2011 – Rev. 3

THERMAL CHARACTERISTICS (Per Leg)

Rating	Symbol	Value	Unit
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.0	°C/W
Maximum Thermal Resistance, Junction-to-Ambient	$R_{ hetaJA}$	50	°C/W

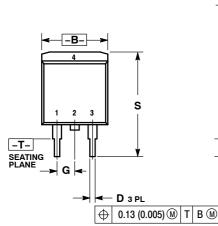
ELECTRICAL CHARACTERISTICS (Per Leg)

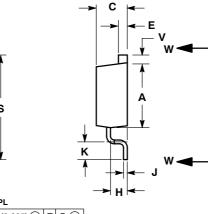
Characteristic		Max	Unit
Maximum Instantaneous Forward Voltage (Note 1) ($i_F = 4.0 \text{ A}, T_C = 150^{\circ}\text{C}$) ($i_F = 4.0 \text{ A}, T_C = 25^{\circ}\text{C}$)	V _F	2.5 2.8	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 150^{\circ}C$) (Rated DC Voltage, $T_C = 25^{\circ}C$)	i _R	500 10	μΑ
Maximum Reverse Recovery Time (I _F = 1.0 A, di/dt = 50 A/µs)	t _{rr}	35	ns

1. Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2.0%

PACKAGE DIMENSIONS

D²PAK 3 CASE 418B-04 **ISSUE K**

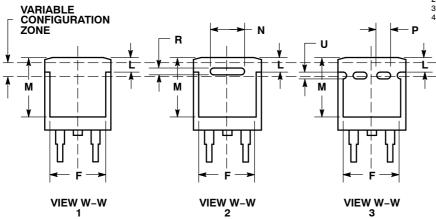




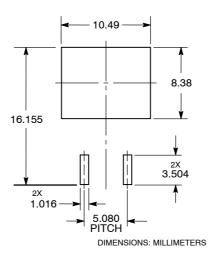
NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. 418B-01 THRU 418B-03 OBSOLETE, NEW STANDARD 418B-04.

	INCHES		MILLIMETER	
DIM	MIN	MAX	MIN	MAX
Α	0.340	0.380	8.64	9.65
В	0.380	0.405	9.65	10.29
С	0.160	0.190	4.06	4.83
D	0.020	0.035	0.51	0.89
Е	0.045	0.055	1.14	1.40
F	0.310	0.350	7.87	8.89
G	0.100 BSC		2.54 BSC	
н	0.080	0.110	2.03	2.79
J	0.018	0.025	0.46	0.64
К	0.090	0.110	2.29	2.79
L	0.052	0.072	1.32	1.83
Μ	0.280	0.320	7.11	8.13
Ν	0.197	REF	5.00 REF	
Ρ	0.079 REF		2.00 REF	
R	0.039 REF		0.99 REF	
S	0.575	0.625	14.60	15.88
V	0.045	0.055	1.14	1.40





SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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