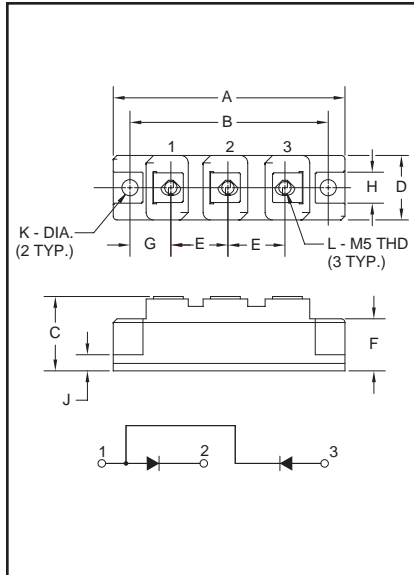


### Dual Diode POW-R-BLOK™ Modules 60 Amperes/800 Volts



Outline Drawing

Dimension	Inches	Millimeters
A	3.681 Max.	93.5 Max.
B	3.150	80
C	1.181 Max.	30 Max.
D	1.024 Max.	26 Max.
E	0.787	20
F	0.827	21
G	0.689	17.5
H	0.492	12.5
J	0.256	6.5
K	0.256 Dia.	Dia. 6.5
L	M5 Metric	M5




CD410860  
Dual Diode  
POW-R-BLOK™ Modules  
60 Amperes/800 Volts

#### Description:

Powerex Dual Diode POW-R-BLOK™ Modules are designed for use in applications requiring AC to DC rectification in isolated packaging. The modules are isolated for easy mounting with other components on common heatsinks. POW-R-BLOK™ has been tested and recognized by Underwriters Laboratories (QQX2 Power Switching Semiconductors).

#### Features:

- Isolated Mounting
- Glass Passivated Chips
- Metal Baseplate
- Low Thermal Impedance
- UL Recognized 

#### Applications:

- Battery Supplies
- AC and DC Motor Power Supplies

#### Ordering Information:

Select the complete eight digit module part number you desire from the table below.  
Example: CD410860 is an 800 Volt, 60 Ampere Dual Diode POW-R-BLOK™ Module.

Type	Voltage Volts (x100)	Current Rating Amperes (60)
CD41	08	60



Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (724) 925-7272

**CD410860**

**Dual Diode POW-R-BLOK™ Modules**

60 Amperes/800 Volts

### Absolute Maximum Ratings

Characteristics	Symbol	CD410860	Units
Peak Reverse Blocking Voltage	$V_{RRM}$	800	Volts
Transient Peak Reverse Blocking Voltage (Non-Repetitive), $t < 5ms$	$V_{RSM}$	960	Volts
DC Reverse Blocking Voltage	$V_{R(DC)}$	640	Volts
RMS On-State Current	$I_{F(RMS)}$	95	Amperes
Average On-State Current, $T_C = 90^\circ C$	$I_{F(AV)}$	60	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	$I_{FSM}$	1200	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	$I_{FSM}$	1095	Amperes
$I^2t$ (for Fusing), 8.3 milliseconds	$I^2t$	6000	$A^2sec$
Storage Temperature	$T_{STG}$	-40 to 125	$^\circ C$
Operating Temperature	$T_j$	-40 to 125	$^\circ C$
Maximum Mounting Torque M6 Mounting Screw	—	26	in.-lb.
Maximum Mounting Torque M5 Terminal Screw	—	17	in.-lb.
Module Weight (Typical)	—	160	Grams
V Isolation	$V_{RMS}$	2000	Volts



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**Electrical and Thermal Characteristics,  $T_j = 25^\circ\text{C}$  unless otherwise specified**

Characteristics	Symbol	Test Conditions	CD410860	Units
<b>Blocking State Maximums</b>				
Reverse Leakage Current, Peak	$I_{RRM}$	$T_j = 125^\circ\text{C}$ , $V_{RRM} = \text{Rated}$	10	mA
<b>Conducting State Maximums</b>				
Peak On-State Voltage	$V_{FM}$	$I_{FM} = 180\text{A}$	1.25	Volts
<b>Thermal Maximums</b>				
Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Per Module	0.5	$^\circ\text{C}/\text{Watt}$
Thermal Resistance, Case-to-Sink (Lubricated)	$R_{\theta(C-S)}$	Per Module	0.2	$^\circ\text{C}/\text{Watt}$

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