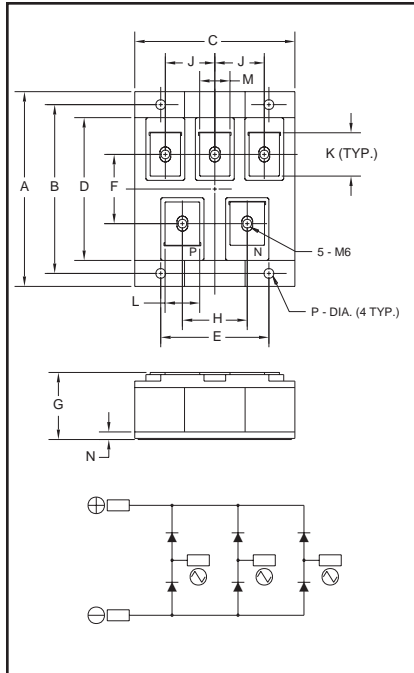


Three-Phase Diode Bridge Modules 150 Amperes/800 Volts



Outline Drawing

Dimension	Inches	Millimeters
A	3.54	90.0
B	3.07	78.0
C	2.91	74.0
D	2.60	66.0
E	1.97	50.0
F	1.26	32.0
G	1.22	31.0
H	1.18	30.0
J	0.90	23.0
K	0.79	20.0
L	0.63	16.0
M	0.55	14.0
N	0.26	6.5
P	0.177±0.004 Dia.	Dia. 4.5±0.1



ME600815
Three-Phase Diode Bridge Modules
150 Amperes/800 Volts

Description:

Powerex Three-Phase Diode Bridge Modules are designed for use in three-phase bridge applications. The modules are isolated consisting of six rectifier diodes.

Features:

- Isolated Mounting
- Planar Chips

Applications:

- Inverters
- DC Power Supplies
- AC Motor Control Front End

Ordering Information:

Select the complete eight digit module part number you desire from the table below.

Example: ME600815 is an 800 Volt, 150 Ampere Three-Phase Diode Bridge Module.

Type	Voltage Volts (x100)	Current Rating Amperes (x10)
ME60	08	15

ME600815

Three-Phase Diode Bridge Modules

150 Amperes/800 Volts

Absolute Maximum Ratings

Characteristics	Symbol	ME600815	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
DC Output Current, $T_C = 97^\circ C$	I_O	150	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	I_{FSM}	1500	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	I_{FSM}	1365	Amperes
I^2t (for Fusing), 8.3 milliseconds	I^2t	9400	A^2sec
Storage Temperature	T_{STG}	-40 to 125	$^\circ C$
Operating Temperature	T_j	-40 to 150	$^\circ C$
Maximum Mounting Torque M4 Mounting Screw	—	12	in.-lb.
Maximum Mounting Torque M4 Terminal Screw	—	12	in.-lb.
Module Weight (Typical)	—	405	Grams
V Isolation	V_{RMS}	2500	Volts

ME600815

Three-Phase Diode Bridge Modules

150 Amperes/800 Volts

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

Characteristics	Symbol	Test Conditions	ME600815	Units
Blocking State Maximums				
Reverse Leakage Current, Peak	I_{RRM}	$T_j = 150^\circ\text{C}$, $V_{RRM} = \text{Rated}$	15	mA
Conducting State Maximums				
Peak On-State Voltage	V_{FM}	$I_{FM} = 150\text{A}$	1.35	Volts
Thermal Maximums				
Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Per Module	0.15	$^\circ\text{C/Watt}$
Thermal Resistance, Case-to-Sink (Lubricated)	$R_{\theta(C-S)}$	Per Module	0.04	$^\circ\text{C/Watt}$

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