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[Powerex Inc.](#)
[ME701203](#)

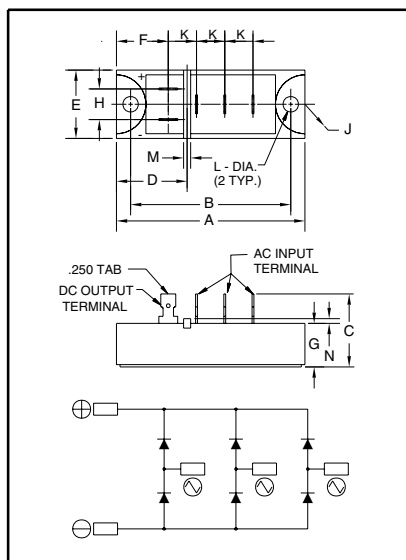
For any questions, you can email us directly:
sales@integrated-circuit.com



ME701203
ME701603

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

**Three-Phase
Diode Bridge Modules
30 Amperes/1200-1600 Volts**



Outline Drawing

Dimension	Inches	Millimeters
A	3.150	80
B	2.677±0.012	68±0.3
C	1.220	31
D	1.181	30
E	1.142	29
F	0.866	22
G	0.728	18.5
H	0.512	13
J	0.492 R	R12.5
K	0.472	12
L	0.256±0.008 Dia.	Dia. 6.5±0.2
M	0.118	3
N	0.079	2



ME701203, ME701603
Three-Phase Diode Bridge Modules
30 Amperes/1200-1600 Volts

Description:

Powerex Three-Phase Diode Bridge Modules are designed for use in three-phase bridge application. The modules are isolated consisting of six rectifier diodes. These ME70 Modules have been tested and recognized by Underwriters Laboratories (QQQX2 Power Switching Semiconductors).

Features:

- Isolated Mounting
- Planar Chips
- UL Recognized

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: ME701603 is a 1600 Volt, 30 Ampere Three-Phase Diode Bridge Module.

Type	Voltage Volts (x100)	Current Rating Amperes (x10)
ME70	12	03
	16	



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Absolute Maximum Ratings

Characteristics	Symbol	ME701203	ME701603	Units
Peak Reverse Blocking Voltage	V_{RRM}	1200	1600	Volts
Transient Peak Reverse Blocking Voltage (Non-Repetitive), $t < 5ms$	V_{RSM}	1350	1700	Volts
DC Reverse Blocking Voltage	$V_{R(DC)}$	960	1280	Volts
DC Output Current, $T_C = 103^{\circ}C$	I_O	30	30	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	I_{FSM}	300	300	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	I_{FSM}	275	275	Amperes
i^2t (for Fusing), 8.3 milliseconds	i^2t	375	375	A^2sec
Storage Temperature	T_{STG}	-40 to 125	-40 to 125	$^{\circ}C$
Operating Temperature	T_j	-40 to 150	-40 to 125	$^{\circ}C$
Maximum Mounting Torque M6 Mounting Screw	—	26	26	in.-lb.
Module Weight (Typical)	—	120	120	Grams
V Isolation	V_{RMS}	2500	2500	Volts



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

Characteristics	Symbol	Test Conditions	ME701203/ME701603	Units
Blocking State Maximums				
Reverse Leakage Current, Peak	I_{RRM}	$T_j = 150^\circ\text{C}$, $V_{RRM} = \text{Rated}$	2.0	mA
Conducting State Maximums				
Peak On-State Voltage	V_{FM}	$I_{FM} = 30\text{A}$	1.25	Volts
Thermal Maximums				
Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Per Module	0.7	$^\circ\text{C/Watt}$
Thermal Resistance, Case-to-Sink (Lubricated)	$R_{\theta(C-S)}$	Per Module	0.1	$^\circ\text{C/Watt}$



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