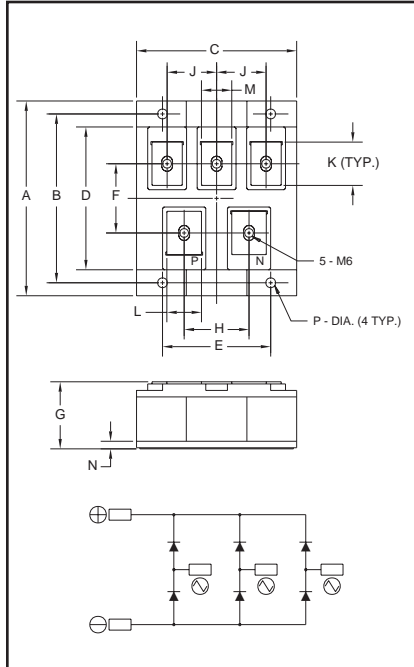


**Three-Phase  
Diode Bridge Modules**  
**150 Amperes/1200-1600 Volts**



**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	.26	6.5
P	0.177±0.004 Dia. Dia. 4.50±0.1	



**ME601215, ME601615**  
**Three-Phase Diode Bridge Modules**  
150 Amperes/1200-1600 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: ME601215 is a 1200 Volt, 150 Ampere Three-Phase Diode Bridge Module.

Type	Voltage Volts (x100)	Current Rating Amperes (x10)
ME60	12	15
	16	



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

**ME601215, ME601615**  
**Three-Phase Diode Bridge Modules**  
150 Amperes/1200-1600 Volts

### Absolute Maximum Ratings

Characteristics	Symbol	ME601215	ME601615	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, $T_C = 97^\circ C$	$I_O$	150	150	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	$I_{FSM}$	1500	1500	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	$I_{FSM}$	1365	1365	Amperes
$I^2t$ (for Fusing), 8.3 milliseconds	$I^2t$	9400	9400	A <sup>2</sup> sec
Storage Temperature	$T_{STG}$	-40 to 125	-40 to 125	°C
Operating Temperature	$T_j$	-40 to 150	-40 to 150	°C
Maximum Mounting Torque M4 Mounting Screw	—	12	12	in.-lb.
Maximum Mounting Torque M4 Terminal Screw	—	12	12	in.-lb.
Module Weight (Typical)	—	405	405	Grams
V Isolation	$V_{RMS}$	2500	2500	Volts



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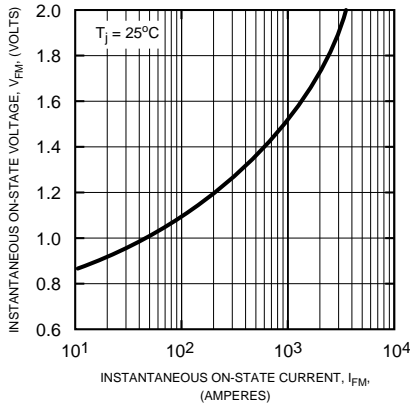
**ME601215, ME601615**  
**Three-Phase Diode Bridge Modules**  
150 Amperes/1200-1600 Volts

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

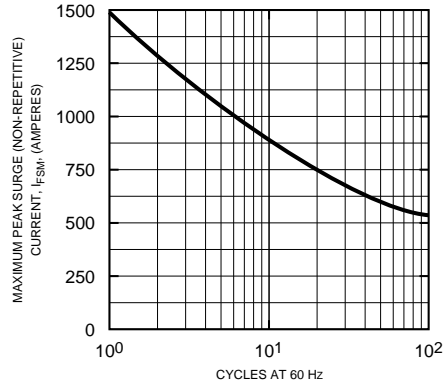
Characteristics	Symbol	Test Conditions	ME601215/ME601615	Units
<b>Blocking State Maximums</b>				
Reverse Leakage Current, Peak	$I_{RRM}$	$T_j = 150^\circ\text{C}$ , $V_{RRM} = \text{Rated}$	15	mA
<b>Conducting State Maximums</b>				
Peak On-State Voltage	$V_{FM}$	$I_{FM} = 150\text{A}$	1.35	Volts
<b>Thermal Maximums</b>				
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	$^\circ\text{C/Watt}$

**ME601215, ME601615**  
**Three-Phase Diode Bridge Modules**  
 150 Amperes/1200-1600 Volts

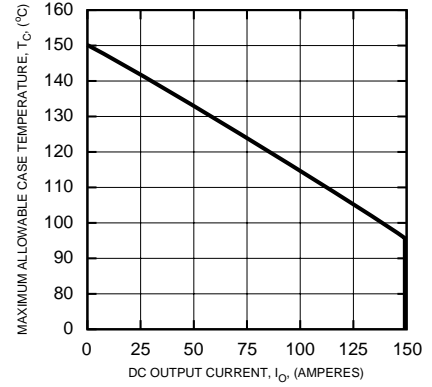
**MAXIMUM ON-STATE CHARACTERISTICS**



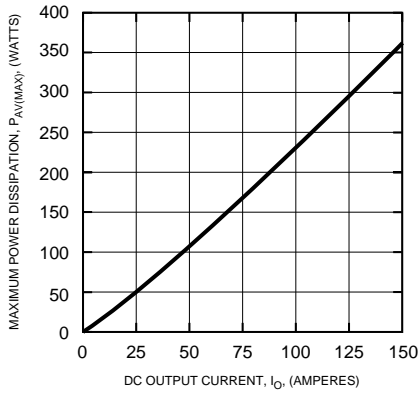
**MAXIMUM ALLOWABLE PEAK SURGE (NON-REPETITIVE) CURRENT**



**MAXIMUM ALLOWABLE CASE TEMPERATURE**



**MAXIMUM ON-STATE POWER DISSIPATION**



**TRANSIENT THERMAL IMPEDANCE CHARACTERISTICS (JUNCTION-TO-CASE)**

