



POWER MODULE PACKAGES

VERSATILE POWER MODULE PACKAGES

VPMP1



Note: OPEN TOOL Package

Features:

- High power density: 100 to 200 Amperes and 1700 Volts.
- Flexible configuration: Diode, Thyristor, IGBT and Mosfet configuration.
- LxWxH mm [inch]: 93 [3.664] x 21 [0.827] x 29.33 [1.156]

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case Thermal Resistance (IGBT)	0.09	°C/W
	*Junction to Case Thermal Resistance (Diode)	0.2	°C/W
	*Junction to Ambient Thermal Resistance	0.1	°C/W
Tj	*Operating Junction Temperature	130	°C
TTSG	*Storage Temperature Range	97	°C
Tc	*Operating Case Temperature	97	°C
Torque	Terminal Mounting Torque (M5)	2	N.m
	Heatsink Mounting Torque (M6)	3	N.m
Weight	Approximate Weight	150	g
Electrical Performance	*Voltage Rating	1700 max.	V
	*Current rating	200 max.	A
	*Power Dissipation	150	W

** customer user data*



Note: OPEN TOOL Package

Features:

- High power density: 300 to 400 Amperes and 1700 Volts.
- Multipurpose platform that can house half bridge, 3 phase bridge, single phase inverter, cascaded inverter and other different configurations.
- LxWxH mm [inch]: 108 [4.252] x 62 [2.441] x 30 [1.205]

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case Thermal Resistance (IGBT)	0.21	°C/W
	*Junction to Case Thermal Resistance (Diode)	0.47	°C/W
	*Junction to Ambient Thermal Resistance	0.07	°C/W
Tj	*Operating Junction Temperature	130	°C
TTSG	*Storage Temperature Range	97	°C
Tc	*Operating Case Temperature	97	°C
Torque	Terminal Mounting Torque (M6)	3 - 5	N.m
	Heatsink Mounting Torque (M6)	3 - 5	N.m
Weight	Approximate Weight	310	g
Electrical Performance	*Voltage Rating	1700 max.	V
	*Current rating	400 max.	A
	*Power Dissipation	700	W

** customer user data*

VPMP3



Note: OPEN TOOL Package

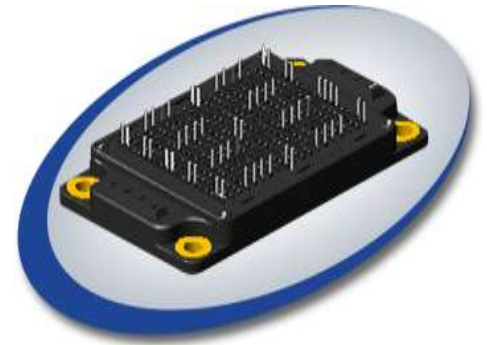
Features:

- High power density: up to 600 Amperes and 1700 Volts.
- Caters to both standard and fast switching devices. This high voltage, high current package can house multiple dice and diverse switch configurations.
- LxWxH mm [inch]: 108 [4.252] x 62 [2.441] x 25.5 [1.004]

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case Thermal Resistance (IGBT)	0.05	°C/W
	*Junction to Case Thermal Resistance (Diode)	0.08	°C/W
	*Junction to Ambient Thermal Resistance	0.02	°C/W
Tj	*Operating Junction Temperature	100	°C
T _{TSG}	*Storage Temperature Range	80	°C
T _c	*Operating Case Temperature	80	°C
Torque	Terminal Mounting Torque (M6)	3 - 5	N.m
	Terminal Mounting Torque (M4)	1 - 2	N.m
	Heatsink Mounting Torque (M6)	3 - 5	N.m
Weight	Approximate Weight	350	g
Electrical Performance	*Voltage Rating	1700 max.	V
	*Current rating	600 max.	A
	*Power Dissipation	750	W

** customer user data*

VPMP4 AND VPMP4i



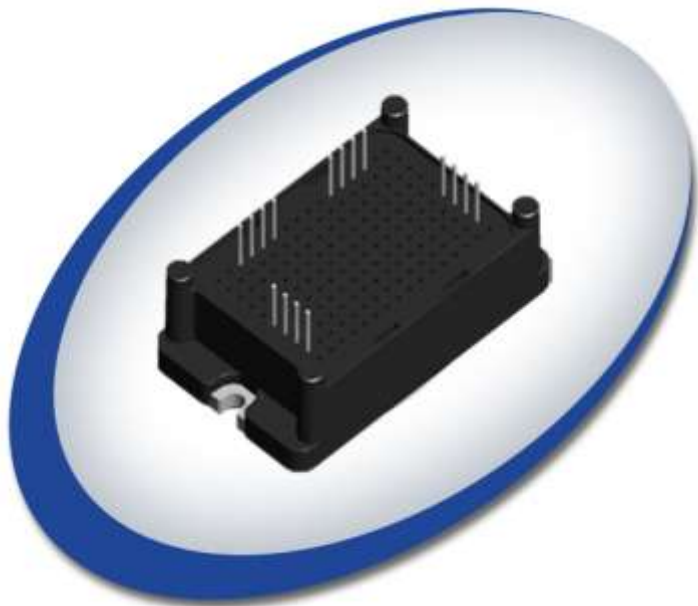
Features:

- High power density: up to 600 Amperes and 1700 Volts.
- It comes in shell type and potting encapsulation.
- LxWxH mm [inch]: 108 [4.252] x 62 [2.441] x 17.83 [0.702]

Note: OPEN TOOL Package

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case Thermal Resistance (IGBT)	0.14	°C/W
	*Junction to Case Thermal Resistance (Diode)	0.25	°C/W
	*Junction to Ambient Thermal Resistance	0.02	°C/W
Tj	*Operating Junction Temperature	-40 to 150	°C
TTSG	*Storage Temperature Range	-40 to 125	°C
Tc	*Operating Case Temperature	-40 to 100	°C
Torque	Terminal Mounting Torque (M5)	2-3.5	N.m
	Heatsink Mounting Torque (M6)	3 - 5	N.m
Weight	Approximate Weight	280	g
Electrical Performance	*Voltage Rating	1700 max.	V
	*Current rating	600 max.	A
	*Power Dissipation	300-400	W

** customer user data*



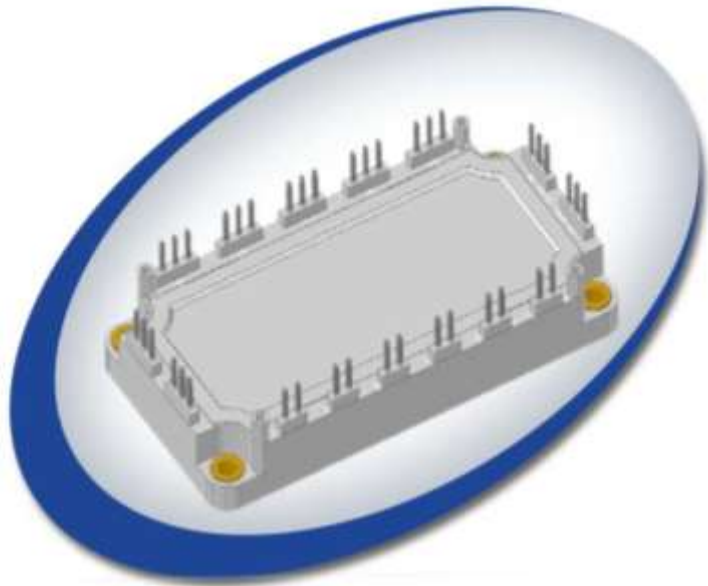
Note: OPEN TOOL Package

Features:

- High power density: 1200 V and 240 A
- Low leakage current and high surge current capability
- LxWxH mm [inch]: 73.17 [2.88] x 42.19 [1.67] x 16.58 [0.663]

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case	0.18	°C/W
T _j	*Operating Junction Temperature	-40 to 150	°C
T _{TSG}	*Storage Temperature Range	-40 to 150	°C
Weight	Approximate Weight	114	g
Electrical Performance	*Voltage Rating	1200 max.	V
	*Current rating	240 max.	A
	*Power Dissipation	140	W

** Based on customer user data, Preliminary data only*



Features:

- High power density: 1700 V and 300 A
- Low leakage current and high surge current capability
- LxWxH mm [inch]: 121.46 [4.80] x 62.11 [2.44] x 17.17 [0.67]

PRODUCT SPECIFICATIONS		RATING	UNIT
Thermal Resistance	*Junction to Case	0.18	°C/W
T _j	*Operating Junction Temperature	-40 to 150	°C
T _{TSG}	*Storage Temperature Range	-40 to 150	°C
Weight	Approximate Weight	300	g
Electrical Performance	*Voltage Rating	1700 max.	V
	*Current rating	300 max.	A
	*Power Dissipation	400	W

Note: OPEN TOOL Package

** Based on customer user data, Preliminary data only*