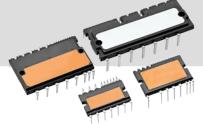


Version 6 DIPIPM™



Applications

- Servo / motion controls
- HVAC
- Home appliances
- Pumps
- Low-capacity industrial inverter

Product Advantages

- Built-in bootstrap diodes and current limiting resistors
- High-accuracy analog temperature output
- Standardized packages simplify design cycles

Overview

Powerex Version 6 DIPIPM[™] simplifies the design of low power inverters for residential, commercial, and industrial applications. Standard features such as analog temperature output and built-in bootstrap diodes reduce the need for peripheral components, thus reducing overall system costs.

By using the latest low loss IGBT (7th Generation CSTBTTM), the product line-up has been expanded to suit a wider range of applications. The design effort is minimized, as Version 6 DIPIPM employs the same standard external packaging previously introduced for Versions 4 and 5.

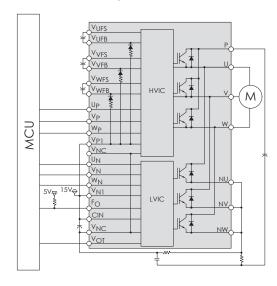
New to the DIPIPM line-up is our SLIMDIP line. SLIMDIP is an ultra-small, compact intelligent power module with a transfer mold package suitable for larger mass production. As with all Powerex DIPIPMs, the power chips, drive, and protection circuits are integrated in the SLIMDIPs, providing a simple solution for AC 100-200V class low-power motor inverter control.

Simplified Block Diagram

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DIPIPM

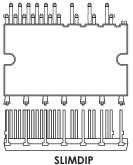
SLIMDIP



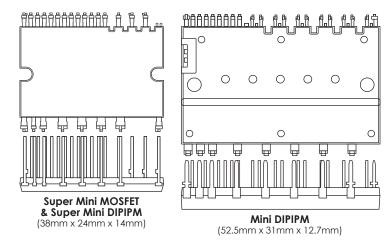


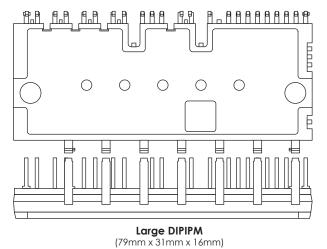


DIPIPM Packages



(32.8mm x 18.8mm x 10.7mm)





Line-up Table

Part Number	V_{DSS}	I_{D}	I _D (peak)
Super Mini MOSFET	DIPIPM		
PSM03S93E5-A	500V	3A	6A
PSM05S93E5-A	500V	5A	10A
1 0//1000/020 / (0001	0, (1071
Part Number	V _{CES}	^I C	IC(peak)
SLIMDIP			
SLIMDIP-L	600V	15A	30A
SLIMDIP-S	600V	5A	30A
Super Mini DIPIPM			
PSS05S92F6-AG	600V	5A	10A
PSS10S92F6-AG	600V	10A	20A
PSS15S92F6-AG	600V	15A	30A
PSS20S92F6-AG	600V	20A	40A
PSS30S92F6-AG	600V	30A	60A
PSS35S92F6-AG	600V	35A	70A
Mini DIPIPM			
PSS20S71F6	600V	20A	40A
PSS30S71F6	600V	30A	60A
PSS50S71F6	600V	50A	100A
PSS05S72FT	1200V	5A	10A
PSS10S72FT	1200V	10A	20A
Lava a DIDIDAA			
Large DIPIPM			
PSS05SA2FT	1200V	5A	10A
PSS10SA2FT	1200V	10A	20A
PSS15SA2FT	1200V	15A	30A
PSS25SA2FT	1200V	25A	50A
PSS35SA2FT	1200V	35A	70A
PSS50SA2FT	1200V	50A	100A







Mitsubishi Power Module Loss Simulator

(MELCOSIM) software, available

at www.pwrx.com, validates device selection based on your specific conditions.

For more information:

visit: http://www.pwrx.com/summary/DIPIPM.aspx

email: globalsales@pwrx.com

phone: 724-925-7272, Option 3 (Applications Engineering Assistance)





