

DELPHI SERIES



FEATURES

- High efficiency: 81.5% @24Vin, 2.5V/3Aout
88% @24Vin, 6.5V/3Aout
- Small size and low profile:
17.8x15.0x7.8mm (0.70"x0.59"x0.31")
- Monotonic startup into normal loads
- Input UVLO, output OCP
- Remote ON/OFF
- Output short circuit protection
- Fixed frequency operation
- Copper pad to provide excellent thermal performance
- ISO 9001, TL 9000, ISO 14001, QS9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950 (US & Canada) Recognized, and TUV (EN60950) Certified
- CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi Series IPM24S, Non-Isolated, Integrated POL Power Modules: 8V~36Vin, 3A Output Current

The Delphi Series IPM24S non-isolated, fully integrated Point-of-Load (POL) power modules are the latest offerings from a world leader in power systems technology and manufacturing — Delta Electronics, Inc. This product family works from a 8V~36V input and provides up to 3A of output current in an industry standard, compact, IC-like, molded package. It is highly integrated and does not require external components to provide the point-of-load function. A copper pad on the back of the module; in close contact with the internal heat dissipation components; provides excellent thermal performance. The assembly process of the modules is fully automated with no manual assembly involved. These converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions. IPM24S is available in both a SMD or SIP package.

OPTION

- SMD or SIP package

APPLICATIONS

- Telecom/DataCom
- Wireless Networks
- Optical Network Equipment
- Server and Data Storage
- Industrial/Test Equipment

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage	Typical	8V~36V	Voltage Accuracy	Typical	±1.5%
Switching Frequency	Typical	300KHz / 150KHz	Line Regulation	Typical	±0.3%
Turn-on time	Typical	30mS	Load Regulation	Typical	±0.3%
MTBF	Bellcore	TBD	Ripple & Noise	Typical	60mVp-p
Size (Body)	Typical	17.8x15.0x7.8mm (0.70"x0.59"x0.31")	Current Limits	Typical	200%

PART NUMBERING SYSTEM

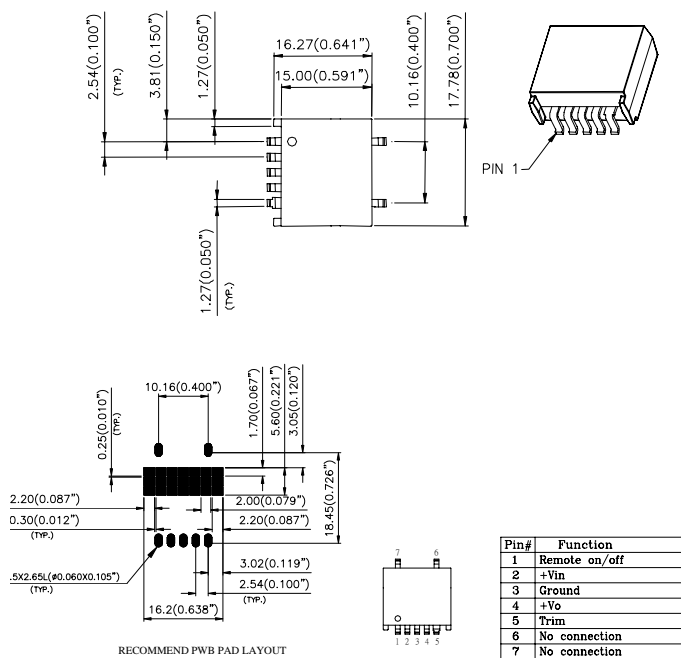
IPM	24	S	0A0	R	03		A
Product Family	Input Voltage	Number of Outputs	Output Voltage	Package	Output Current		Option Code
Integrated POL Module	24 - 8V~36V 11V~36V 20V~36V	S - Single	0A0 - programmable 1.2V ~ 2.5V 0B0 - programmable 3.3V ~ 6.5V 0C0 - programmable 8.0V ~ 15.0V	R - SIP S - SMD	03 - 3A	F- RoHS 6/6 (Lead Free)	A - Standard Functions

MODEL LIST

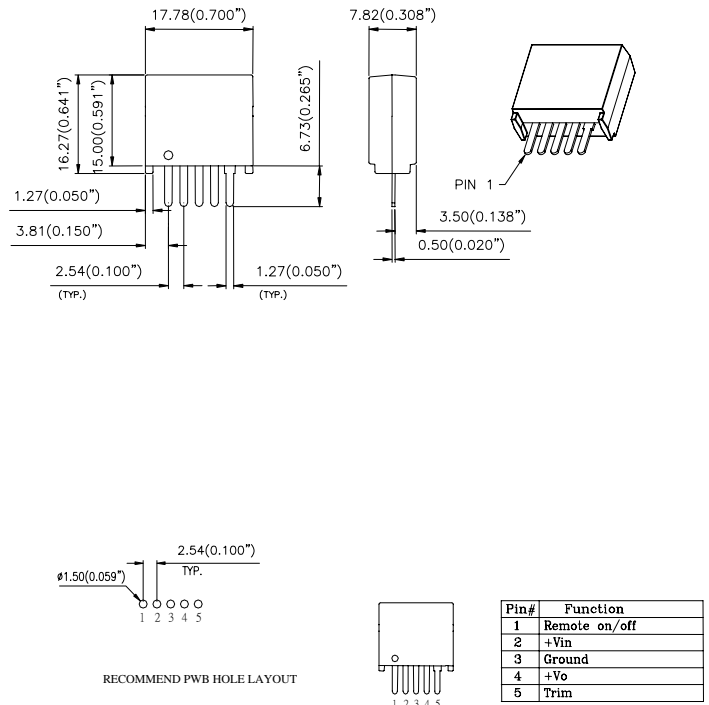
Model Name	Input Voltage	Output Voltage	Output Current	Efficiency (Full load@12Vin)
IPM24S0A0S/R03FA	8V ~ 36V	1.2 ~ 2.5V	3A	85%
IPM24S0B0S/R03FA	11V ~ 36V	3.3 ~ 6.5V	3A	91%
Model Name	Input Voltage	Output Voltage	Output Current	Efficiency (Full load@20Vin)
IPM24S0C0S/R03FA	20V ~ 36V	8.0V~15.0V	3A	95%

MECHANICAL DRAWING

SMD PACKAGE



SIP PACKAGE



ALL DIMENSION ARE IN MILLIMETERS (INCHES)
STANDARD DIMENSION TOLERANCE IS ± 0.10(0.004")

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WARRANTY

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