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VTM® Current Multiplier

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Select Options

Mounting Style

J-Lead

Product Grade

Definition

Select...

Apply

Ordering Information

Product Status:

Production Lead Time:

Prototype Lead Time:

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Specifications

Module Size: Half
Product Grade: -40 to 125 ° C
Input Voltage: 42.0
Output Voltage: 3.5
Output Current: 25.0

Features

High frequency ZVS / ZCS Sine Amplitude Converter™ (SAC™)
High efficiency, up to > 95%
High density, up to 334 A/in³
Up to 50 A in a 0.56 in² footprint
Low AC impedance: bulk capacitance elimination
Fast dynamic response and low noise: no output filtering required
2,250 V of isolation
Contains built-in protection features
Pick & place / SMD compatible
Mix and match full and half-chip products

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Documentation

Data Sheets

[PDF](#) [Data Sheet](#)

Design Guides

[PDF](#) [UG:003 - PRM / VTM Evaluation Board User Guide](#)

Application Notes

- [PDF](#) [AN:002 - PRM / VTM Parallel Operation](#)
- [PDF](#) [AN:003 - Powering Multiple VTMs with a Single PRM](#)
- [PDF](#) [AN:005 - FPA Printed Circuit Board Layout Guidelines](#)
- [PDF](#) [AN:009 - VI Chip Soldering Recommendations](#)
- [PDF](#) [AN:018 - Providing a Constant Current for Powering LEDs using the PRM and VTM](#)
- [PDF](#) [AN:024 - Accurate POL Voltage Regulation Using Simple Adaptive Loop Feedback](#)
- [PDF](#) [AN:007 - Using VTMs as 26 - 55 V Input Bus Converters](#)

White Papers

[PDF](#) [FPA Overview: An Introduction to FPA](#)

- [PDF](#) Enabling Next Generation High-Density Power Conversion
- [PDF](#) Datacenter Power Delivery Architectures: Efficiency and Annual Operating Costs
- [PPS](#) Efficient Power Conversion Solutions
- [PDF](#) High Current, Low Voltage Solution For Microprocessor Applications from 48 V Inp
- [PDF](#) Dual-Stage Feedback Technique for Single-Pole Feedback Compensation

Safety Agency Documentation

- [PDF](#) cURus - UL 60950-1, CSA 60950-1
- [PDF](#) cTÜVus - EN 60950-1, UL 60950-1, CSA 60950-1
- [PDF](#) CE Mark - Low Voltage Directive (2006/95/EC) and RoHS Recast Directive (2011/65/EU)
- [PDF](#) CB Certificate - IEC 60950-1:2005

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Design Tools

Simulation Modules (2)

Description	Link
VTM48EH040T025A00 - Average	ZIP
VTM48EH040T025A00 - Switching	ZIP

Mechanical Drawings and 3-D Models (4)

Description	
Half-Chip VTM with J-Lead mounting	STP
Half-Chip VTM with J-Lead mounting	PDF
Half-Chip VTM with J-Lead mounting	IGS
Half-Chip VTM with J-Lead mounting	DXF

Evaluation Boards (1)

Description	Part Number	User Guide	Order Online
Vin 48 V, Vout 4 V, Iout 25 A	VTD48EH040T025A00	PDF	Add To Cart

Mechanical Samples (1)

Description	Part Number	Order Online
Half-Chip VTM with J-Leads	VIZ0012	Add To Cart

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Related Products

Heat Sinks (4)

Description	Part Number	RoHS	Land Pattern Drawing	Drawing	Order Online
Longitudinal Fins 11 mm	32783	Yes	PDF	PDF	Add To Cart
Transverse Fins 11 mm	32784	Yes	PDF	PDF	Add To Cart
Longitudinal Fins 6.3 mm	32785	Yes	PDF	PDF	Add To Cart
Transverse Fins 6.3 mm	32786	Yes	PDF	PDF	Add To Cart

Push Pins (4)

Description	Part Number	RoHS	Drawing	Order Online
0.051"-0.069" PCB	33622	Yes	PDF	Add To Cart

0.070"-0.104" PCB	33623	Yes	PDF	Add To Cart
0.105"-0.132" PCB	33624	Yes	PDF	Add To Cart
0.133"-0.156" PCB	33625	Yes	PDF	Add To Cart

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