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Vishay Intertechnology, Inc.

Computer

(Portable Computers)



One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components





Computer

Portable Computers

Tablet PCs

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Ultrabooks

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Notebooks

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More information on the Engineer's Toolbox, including product datasheet links, can be found at www.vishay.com/ref/et3.

For inquiries, please contact your local sales representative.

Key components for PORTABLE COMPUTERS



THE VISHAY ADVANTAGE

- Power Efficiency
- Optimized Performance
- Small Size
- Low Profile and Compact Size
- High Power Rating
- ESD Protection
- High Surge Current Capabilities
- Cost Efficiency

Tablet PCs



Ultrabooks



Notebooks





Tablet PCs



RESISTORS

Professional Thin Film Chip Resistors




[MCS0402...e3](#)

- Best in class surge handling capability, excellent overall stability class 0.5
- CECC approved acc. EN 140401-801, sulfur resistant

MOSFETs

P-Channel 20 V (D-S) MOSFET




[Si7655ADN](#)

- Industry leading p-channel Gen III technology, maximum $R_{DS(on)}$ 3.6 m Ω
- Thermally enhanced PowerPAK[®] 1212-8 is 1/3 the size of an SO-8

INDUCTORS

Low-Profile, High-Current IHLP[®] Inductors




[IHLP-1616AB](#)

- Very low profile, high-current inductor for DC/DC conversion
- High frequency energy storage up to 5 MHz

OPTOELECTRONICS

Fully Integrated Proximity and Ambient Light Sensor with I²C Interface




[VCNL4020](#)

- Infrared emitter is included in the 4.9 mm x 2.4 mm x 0.83 mm SMD pkg.
- 16-bit resolution, proximity range of up to 20 cm with programmable thresholds

RESISTORS

Power Metal Strip[®] SMD Resistors, Very High Power (to 3 W), Low Value (to 0.0005 Ω)

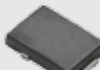


[WSLP](#)

- Very high power rating to 3 W in WSLP0603 to WSLP2512 size packages
- Extremely low resistance values from 0.0005 Ω to 0.1 Ω and tolerance of 1 %

RECTIFIERS

High Current Density Surface-Mount Trench MOS Barrier Schottky Rectifier




[V10PL45](#)

- Trench MOS Schottky technology
- Very low profile – typical height of 1.1 mm

NON-LINEAR RESISTORS

SMD 0402, Glass Protected NTC Thermistors




[NTCS0402E3](#)

- Glass protected with soft terminations
- Standard series, AEC-Q200 compliant

ICs

1.1 V to 5.5 V, Slew Rate Controlled Load Switch in TDFN4



[SiP32408](#)

- Low and flat R_{ON} over the full operation voltage range of 1.1 V to 5.5 V
- Features 2.5 ms rise time, true reverse blocking, low-voltage logic control

TANTALUM CAPACITORS

Solid Tantalum Chip Capacitors 298D MICROTAN[®], 298W Extended Range MICROTAN




[298D](#)

- High capacitance in small case sizes including 0603 and 0402 footprint
- Perfect for space constrained designs

DIODES

4-Line Bus-Port ESD Protection




[VBUS54ED-FBL](#)

- Ultra compact LLP2510-10L package
- Low load capacitance $C_D = 0.8$ pF

RESISTORS

Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value




[RCWE](#)

- Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity

RECTIFIERS

Surface-Mount Schottky Barrier Rectifiers



[MSS2P3](#)

- Very low profile – typical height of 0.65 mm
- AEC-Q101 qualified

View datasheets for these products www.vishay.com/ref/et3co1a



Ultrabooks



MOSFETs

N-Channel 30 V (D-S) MOSFET




[SiS412DN](#)

- TrenchFET® Gen III technology, maximum $R_{DS(on)}$ 24 m Ω
- Thermally enhanced PowerPAK® 1212-8 is 1/3 the size of an SO-8

INDUCTORS

Low-Profile, High-Current IHLP® Inductors




[IHLP-2020AB](#)

- Very low profile, high current inductor for DC/DC conversion
- High frequency energy storage up to 5 MHz

MOSFETs

Dual N-Channel 30 V (D-S) MOSFET



[SiZ342DT](#)

- TrenchFET Gen IV technology for increased power density, maximum $R_{DS(on)}$ 11.1 m Ω
- PowerPAIR® packaging optimizes high and low side MOSFETs to increase efficiency

TANTALUM CAPACITORS

vPolyTan™ Polymer Tantalum Capacitors



[T55](#)

- High-capacitance, ultra low-ESR polymer tantalum capacitors
- Small case size, low profile

RESISTORS

Professional Thin Film Chip Resistors




[MCT0603...e3](#)

- Best in class surge handling capability, excellent overall stability class 0.5
- CECC approved acc. EN 140401-801, sulfur resistant

OPTOELECTRONICS

Ambient Light Sensor with High-Speed and High-Sensitivity PIN Photodiode Output




[TEMD6200FX01](#)

- Wavelength of peak sensitivity of 550 nm; similar to human eye sensitivity
- Excellent linearity over operating temperature range of -40 °C to +100 °C

RESISTORS

Power Metal Strip® Resistors, Low Value (Down to 0.0005 Ω), Surface-Mount, 4-Terminal




[WSK](#)

- Extremely low resistance values from 0.0005 Ω to 0.005 Ω and tolerance of 1 %
- 4-terminal, Power Metal Strip construction offers high current sensing accuracy

RECTIFIERS

High Current Density Surface-Mount Schottky Barrier Rectifiers




[SS3P3L, SS3P4L](#)

- Very low profile – typical height of 1.1 mm
- AEC-Q101 qualified

RECTIFIERS

High Current Density Surface-Mount Trench MOS Barrier Schottky Rectifier




[V12P12](#)

- Trench MOS Schottky technology
- Very low profile – typical height of 1.1 mm

NON-LINEAR RESISTORS

SMD 0402, Glass Protected NTC Thermistors




[NTCS0402](#)

- Glass protected with soft terminations
- Standard series, AEC-Q200 compliant

DIODES

Surface-Mount TRANSZORB® Transient Voltage Suppressors



[SMAJxx \(Power\)](#)

- 400 W peak pulse power capability with a 10/1000 μ s waveform
- AEC-Q101 qualified

MOSFETs

N-Channel 30 V (D-S) MOSFET



[SiSA18ADN](#)

- TrenchFET Gen IV technology for increased power density, maximum $R_{DS(on)}$ 7.5 m Ω
- Thermally enhanced PowerPAK 1212-8 is 1/3 the size of an SO-8


View datasheets for these products www.vishay.com/ref/et3co1b



Notebooks




OPTOELECTRONICS

Fully Integrated Proximity and Ambient Light Sensor with I²C Interface 

[VCNL4010](#)

- Infrared emitter is included in the 3.95 mm x 3.95 mm x 0.75 mm SMD pkg.
- 16-bit resolution, proximity range of up to 20 cm with programmable thresholds


RESISTORS

Power Metal Strip[®] Resistors, Low Value (Down to 0.0005 Ω), Surface-Mount 

[WSLx](#)

- Extremely low resistance values from 0.0005 Ω to 0.5 Ω and tolerance of 1 %
- Power Metal Strip all-welded construction offers high pulse capacity


DIODES

4-Line Bus-Port ESD Protection 

[VBUS54ED-FBL](#)

- Ultra compact LLP2510-10L package
- Low load capacitance C_D = 0.8 pF

ICs

46 mΩ, Slew Rate Controlled Load Switch in uDFN4 1.1 mm x 1.1 mm 

[SiP32472](#)

- 1.2 V to 5.5 V operation voltage range with low and flat R_{DS(on)}
- Featuring low I_O output discharge, and reverse blocking


TANTALUM CAPACITORS

Solid Tantalum Surface-Mount Chip Capacitors, TANTAMOUNT[®], Molded Case, Built-In-Fuse 

[TF3](#)

- Molded case, miniature built-in-fuse, low ESR, 100 % surge tested current
- Safety critical industrial, medical instrumentation, high end computing, data storage


MOSFETs

N-Channel 30 V (D-S) MOSFET 

[SiR172ADP](#)

- High density TrenchFET[®] technology, maximum R_{DS(on)} 8.5 mΩ
- Thermally enhanced PowerPAK[®] SO-8 packaging

NON-LINEAR RESISTORS

SMD 0603, Glass Protected NTC Thermistors 

[NTCS0603](#)

- Glass protected with soft terminations
- Standard series, AEC-Q200 compliant


MOSFETs

N-Channel 30 V (D-S) MOSFET 

[SiRA04DP](#)

- TrenchFET Gen IV synchronous buck low-side MOSFET with maximum R_{DS(on)} = 2.15 mΩ
- Thermally enhanced PowerPAK SO-8 packaging


RECTIFIERS

Dual High-Voltage Trench MOS Barrier Schottky Rectifier 

[V20120C](#)

- Trench MOS Schottky technology
- AEC-Q101 qualified


INDUCTORS

Low-Profile, High-Current IHLP[®] Inductors 

[IHLP-2525](#)

- Compact power inductor for high current DC/DC conversion
- High-frequency energy storage up to 5 MHz


OPTOELECTRONICS

IR Receiver Modules for Remote Control Systems 

[TSOP57](#)

- Industry leading range of 45 m, directivity of ± 75° in a leadless SMD package
- Low profile of 0.8 mm and featuring AGC-3 or AGC-4 noise suppression

RESISTORS

Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value 

[RCWE](#)

- Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity

View datasheets for these products www.vishay.com/ref/et3co1c





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ABOUT TTI, INC.

TTI Inc., a subsidiary of Berkshire Hathaway, is a world leading specialist distributor of connectors and passive, electromechanical and discrete components. TTI's philosophy is "Lead by Design", and the company differentiates itself by focusing on people, parts and processes. The company's aim is to become the distributor of choice for customers and suppliers in Europe alike by introducing new product technologies and by stocking broad and deep across its franchise base. TTI employs sophisticated inventory management processes which ensure that the company can react immediately to changes in component demand due to fluctuating markets and supply chains. For further information about TTI, please refer to: www.ttieurope.com.



**A WORLD OF
SOLUTIONS**

TTI, INC.

Ganghoferstr. 34
82216 Maisach-Gernlinden
Germany
Tel.: +49 (0)8142 6680 – 0
Fax: +49 (0)8142 6680 – 490
Email: sales@de.ttiinc.com
www.ttieurope.com