

ボディ電子機器の主要部品



快適性、ドア
ウィンドウ制御



インフォテインメント、
ナビ、オーディオ



内装
LED照明



THE VISHAY ADVANTAGE

- AEC準拠
- 高電力密度
- 薄型
- 耐久性
- カスタム対応

快適性、ドア ウィンドウ制御



<p>MOSFETs</p> <p>N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, 40 V, 58 A, 6.3m Ω</p>  <p>SQJ868EP</p> <ul style="list-style-type: none"> • AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation • Thermally enhanced PowerPAK SO-8L replaces DPAK in less than half of the area 	<p>RECTIFIERS</p> <p>Surface-Mount Schottky Barrier Rectifiers</p>  <p>MSS1P4</p> <ul style="list-style-type: none"> • Very low profile - typical height of 0.65 mm • AEC-Q101 qualified 	<p>DIODES</p> <p>SMD Power ESD Diodes, Up to ± 30 kV, I_{FSM} = 50 A</p>  <p>SMFxx</p> <ul style="list-style-type: none"> • SMF package: 3.5 mm x 1.9 mm • Breakdown voltage = 6.4 V to 64.4 V
<p>RESISTORS</p> <p>Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value</p>  <p>RCWE</p> <ul style="list-style-type: none"> • Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 % • Thick film construction with 2x power capacity 	<p>OPTOELECTRONICS</p> <p>Ambient Light PIN Photodiode Sensors</p>  <p>TEMD6200FX01</p> <ul style="list-style-type: none"> • SMD 0805 package, low profile of 0.85 mm, wide viewing angle of ± 60 ° • Spectral sensitivity close to human eye, high signal output linearity 	<p>OPTOELECTRONICS</p> <p>Silicon PIN Photodiode with Excellent Output Linearity Characteristics</p>  <p>VEMD6160X01</p> <ul style="list-style-type: none"> • SMD 1206 package, daylight blocking filter, wide viewing angle of ±70° • Low capacitance of 4.6pF, ideal for noisy environments and small signal detection
<p>INDUCTORS</p> <p>Low-Profile, High-Current IHLP® Inductors</p>  <p>IHLP-4040DZ-5A</p> <ul style="list-style-type: none"> • Excellent high-current performance for noise filters • High-temperature operation up to 155 °C 	<p>TANTALUM CAPACITORS</p> <p>Solid Tantalum Chip Capacitors, High CV Leadframeless Molded, Automotive Grade</p>  <p>TP3 / TP8</p> <ul style="list-style-type: none"> • TP3 - AEC-Q200 qualified; low ESR; A, B, C, D and E cases • TP8 - AEC-Q200 qualified 	<p>ALUMINUM CAPACITORS</p> <p>Aluminum Capacitors, Increased Vibration Resistance</p>  <p>246 CTI-V</p> <ul style="list-style-type: none"> • High temperature, low impedance, high vibration capability • High ripple current, long useful life
<p>OPTOELECTRONICS</p> <p>SMD Silicon PIN Photodiodes with Large Active Area for High Photo Currents</p>  <p>VEMD5110X01</p> <ul style="list-style-type: none"> • QFN package with wettable flanks, reduced noise sensitivity • Wide operating temperature range of -40 ° to +110 °C, wide viewing angle of ± 65° 	<p>OPTOELECTRONICS</p> <p>850 nm SMD Infrared Emitters</p>  <p>VSMY1850ITX01</p> <ul style="list-style-type: none"> • SMD 0805 package, low profile of 0.85 mm, high radiant intensity of 10 mW/sr • Wide operating temperature range of -40 ° to +105 °C, wide viewing angle of ± 60° 	<p>CERAMIC CAPACITORS</p> <p>High Operating Temperature, Automotive Grade Leaded MLCC Capacitors</p>  <p>HOTcap® K...H, A...R, K...R</p> <ul style="list-style-type: none"> • High-reliability MLCC insert with wet build process • High operating temperature (up to 175 °C for K...H and up to 160 °C for A...R and K...R), rated voltages: 50 V, 100 V, 200 V

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<p>MOSFETs</p> <p>Dual N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, 40 V, 11 mΩ / 22 mΩ</p>  <p>SQJ942EP</p> <ul style="list-style-type: none"> • AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation • Optimized for high-frequency DC/DC applications, lower switching losses 	<p>OPTOELECTRONICS</p> <p>890 nm SMD Infrared Emitters</p>  <p>VSMF970011X01</p> <ul style="list-style-type: none"> • Low-profile PLCC² package, wavelength matched to sensitivity of proximity sensor • External emitter to enable gesture function of proximity sensor 	<p>INDUCTORS</p> <p>IHLP® High-Temperature (155 °C) Parts in Double Inductor Package</p>  <p>IHLD-4032KB-5A</p> <ul style="list-style-type: none"> • Optimal design provides high quality sound and low distortion • Low coupling for minimal cross-talk between inductors
<p>RESISTORS</p> <p>Thick Film Surface-Mount Chip Resistors, Wraparound, Extremely Low Value</p>  <p>RCWE0603</p> <ul style="list-style-type: none"> • Low resistance values from 0.01 Ω to 0.99 Ω and tolerance of 1 % • Thick film construction with 2x power capacity 	<p>OPTOELECTRONICS</p> <p>Integrated Proximity and Ambient Light Sensors with I²C Interface</p>  <p>VCNL4020X01</p> <ul style="list-style-type: none"> • Low-profile QFN SMD package, 16 bit resolution, proximity distance up to 200 mm • Suitable for extended detection range, gesture function with external emitters 	<p>MOSFETs</p> <p>Dual N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, 12 V, 2.7 mΩ / 7.4 mΩ</p>  <p>SQJ202EP</p> <ul style="list-style-type: none"> • AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation • Low-voltage, high-frequency synchronous buck applications, lower switching losses
<p>RECTIFIERS</p> <p>Surface-Mount Schottky Barrier Rectifiers</p>  <p>MSS1P4</p> <ul style="list-style-type: none"> • Very low profile - typical height of 0.65 mm • AEC-Q101 qualified 	<p>INDUCTORS</p> <p>Low-Profile, High-Current IHLP® Inductors</p>  <p>IHLP-2525CZ-5A</p> <ul style="list-style-type: none"> • Excellent high-temperature performance for DC/DC converter input and output filters 	<p>RESISTORS</p> <p>Precision Thin Film Resistor Arrays, Superior Moisture Resistivity, TCR ± 0.05</p>  <p>ACAS 0606 AT</p> <ul style="list-style-type: none"> • Arbitrary resistance ratio up to 1:20, superior tracking stability over lifetime • Relative TCR down to ± 5 ppm/K (tracking), AEC-Q200 qualified
<p>TANTALUM CAPACITORS</p> <p>Solid Tantalum Chip Capacitors, High CV Leadframeless Molded, Automotive Grade</p>  <p>TP8</p> <ul style="list-style-type: none"> • Smallest AEC-Q200 qualified tantalum capacitors with case sizes as small as 0603 	<p>CERAMIC CAPACITORS</p> <p>AEC-Q200 Qualified, Broad Range of Sizes and Working Voltages, C0G (NPO), X7R, and X8R</p>  <p>VJ...31X RoHS Automotive MLCCs</p> <ul style="list-style-type: none"> • RoHS and Green compliant parts available • AgPd termination available for epoxy bonding 	<p>INDUCTORS</p> <p>High-Curent SMD Inductors with E-Field Shielding and 155 °C Operating Temperature</p>  <p>IHLE-3232DD-5A</p> <ul style="list-style-type: none"> • Excellent EMI protection, double-shielded




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RESISTORS

Pulse-Proof, High-Power Thick Film Chip Resistors




[CRCW-HP e3](#)

- Excellent pulse load capability
- Enhanced power rating

MOSFETs

P-Channel MOSFETs in 3 mm x 3 mm PowerPAK® 1212, -60 V, -16 A, 65 mΩ



[SQ7415AENW](#)

- AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation
- High power density PowerPAK® 1212 with wettable flanks for AOI

RECTIFIERS

Surface-Mount Schottky Barrier Rectifiers



[MSS1P6](#)

- Low-profile MicroSMP package for low-voltage, high-frequency inverters; DC/DC converters; and polarity protection applications

MOSFETs

N-Channel MOSFETs in 3 mm x 3 mm PowerPAK® 1212, 60 V, 18 A, 23 mΩ




[SQ7414AENW](#)

- AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation
- High power density PowerPAK® 1212 with wettable flanks for AOI

RECTIFIERS

100 V, 2 A High-Voltage Schottky Diodes, T_j = 175 °C



[SS2PH10](#)

- SMP(DO-220AA) package, 3.7 mm x 2.18 mm

RESISTORS

Power Metal Strip® SMD Resistors, Wide Terminal, 1 mΩ to 3 mΩ, 1 W




[WSL0612](#)

- Low EMF, high temperature up to 170 °C

RESISTORS

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




[RCWE0603](#)

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

NON-LINEAR RESISTORS

SMD Glass-Protected NTC Thermistors




[NTCS...e3](#)

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

INDUCTORS

Low-Profile, High-Current IHLP® Inductors



[IHLP-1616BZ-A1](#)

- Shielded construction, lowest DCR/μH in this package size
- Excellent DC/DC energy storage up to 5 MHz

TANTALUM CAPACITORS

Solid Tantalum Molded Chip Capacitors, Automotive Grade



[TP3](#)

- AEC-Q200 qualified, low ESR
- A, B, C, D, and E cases

