



Active Safety Advanced Driver Assistance System (ADAS)



MOSFETs

N-Channel MOSFETs in 3 mm x 3 mm Dual PowerPAK®, Rated at 40 V, 6 A, 25 m&



- TrenchFET® power MOSFET
- AEC-Q101 qualified

[SQS944ENW](#)

MOSFETs

N-Channel MOSFETs in 2 mm x 2 mm PowerPAK®, Rated at 60 V, 78 A, 28 m&



- Halogen-free According to IEC 61249-2-21 Definition
- TrenchFET® Power MOSFET
- AEC-Q101 qualified

[SQA410EJ](#)

INDUCTORS

IHLE® High Current SMD Inductors With E-Field Shield, Operating Temperature 155 °C



- Excellent EMI protection, double-shielded

[IHLE-3232DD-5A](#)

INDUCTORS

Low-Profile, High-Current IHLP® Inductors



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

[IHLP-1616BZ-A1](#)

POWER RECTIFIERS

Surface-Mount Schottky Barrier Rectifiers



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

[MSS1P4](#)

RESISTORS

High Frequency, 50 GHz, Thin Film Chip Resistors



- Operating frequency 50 GHz
- Thin film microwave resistors

[CH](#)

TVS PROTECTION DIODES

Surface-Mount PAR®TVS Diodes, 600 W, 6.8 V to 51 V, Low Profile (1 mm)



- Very low-profile DO-221AC (SlimSMA™) package - typical height of 0.95 mm
- $T_j = 185 \text{ }^\circ\text{C}$

[TA6Fxx](#)

OPTOELECTRONICS

Fully Integrated Proximity and Ambient Light Sensor with I2C Interface



- Integrated current driver with internal logic to drive up to three IREDS
- Low-profile QFN SMD package, 16 bit resolution, proximity distance up to 200 mm
- Up to 4 different slave addresses for more sensors on I2C bus

[VCNL4035X01](#)

RESISTORS

IHLP® High Current SMD Inductors With E-Field Shield, Operating Temperature 155 °C



- Excellent EMI protection, double-shielded

[IHLP-1212BZ-5A](#)

CERAMIC CAPACITORS

AEC-Q200 Qualified for High Frequency Circuits With Ultra Stable Dielectric Material, Broad Range of Sizes and Working Voltages



- Case size 0402, 0603, 0805, 0505, 1111
- High frequency

[GA...31M Automotive HiFREQ MLCCs](#)

INDUCTORS

IHLP® Automotive Inductors, High Temperature (155 °C)



- Shielded construction
- High temperature, up to 155 °C

[IHLP-1212BZ-5A](#)

POWER ICs

Automotive 125 °C Analog Switch,
Dual DPDT / Quad SPDT



- 1.8V to 5.5 V single supply operation
- Low resistance: 0.37 Ω /p. at 2.7 V

[DGQ2788A](#)

ESD PROTECTION DIODES

Bidirectional Symmetrical (BiSy)
Low Capacitance, Dual-Line ESD
Protection Diode



- 2-line ESD protection diode with ± 26.5 V working range in SOT-23 package
- Low load capacitance CD < 13 pF
- For CAN and FLEX-Bus applications

[VCAN26A2-03S](#)

RESISTORS

Ultra Precision Thin Film Chip Re-
sistors, Tolerance down to 0.02 %,
TCR down to 2 ppm/K, 0402 to
1206 Case Sizes



- Low temperature coefficients and tight tolerances
- Excellent overall stability < 0.05 % (1000 h rated power at 70 °C)
- Sulfur resistance verified according to ASTM B 809

[TNPU e3](#)

RESISTORS

SMD Thick Film Resistors, High
Stability, Sulfur-Resistant



- TCR = 50 ppm/K to 200 ppm/K
- Metal glaze on high quality ceramic with protective overglaze
- Sulfur resistant

[RCA](#)

POWER RECTIFIERS

2 A 30 V TMBS® (Trench MOS
Barrier Schottky) Rectifier



- Very low profile - typical height of 0.65 mm
- Ideal for automated placement

[MSS2P3HM3](#)