



Exterior Lighting LED Headlight Units



MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, Rated at 60 V, 30 A per Leg, 12 m&



- TrenchFET® power MOSFET
- AEC-Q101 qualified
- 100 %RG and UIS tested

[SQJB60EP](#)

INDUCTORS

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



- Excellent EMI protection, double-shielded

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

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
- Tj = 185 °C

[TA6Fxx](#)

RESISTORS

Professional Thin Film MELF Resistors



- Unrivaled surge handling capability, ultimate stability over lifetime
- AEC-Q200 qualified, approved according to EN 140401-803, intrinsically sulfur-resistant, Green product

[MMB 0207](#)

THERMISTORS

SMD Glass-Protected NTC Thermistors



- TCR ranging from -7 %/K at -40 °C to -2 %/K at 150 °C
- Tolerance on R25 down to 1 %, and on B25/85 down to 1 %
- Suitable for wave or reflow soldering

[NTCS...e3](#)

POWER RECTIFIERS

High Current Density, Surface-Mount TMBS®(Trench MOS Barrier Schottky) Rectifiers

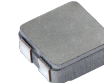


- Ultra-low VF = 0.466 V at IF = 4 A
- Very low profile - typical height of 1.1 mm

[V8P10HM3](#)

INDUCTORS

Low Profile, High Current Coupled Inductors



- High-temperature operation up to 155 °C
- Frequency range up to 5.0 MHz

[IHCL-4040DZ-5A](#)

INDUCTORS

Low Profile, High Current IHLP® Inductors



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

[IHLP-5050EZ-5A](#)

CERAMIC CAPACITORS

AEC-Q200 Qualified, Broad Range of Sizes and Working Voltages, C0G (NPO), X7R, and X8R



- RoHS and Green compliant parts available
- AgPd termination available for epoxy bonding

[GA...31G Automotive MLCCs](#)

TANTALUM CAPACITORS

Solid Tantalum Surface-Mount Chip Capacitors, Molded Case, Automotive Grade



- High-temperature molded tantalum capacitors, HI-TMP®, up to 150 °C

[TH3](#)

ALUMINUM CAPACITORS

SMD Aluminum Capacitors, High Temperature Up to 150 °C, Low ESR



- High ripple current up to 1400 mA at 150 °C, capacitance up to 3300 µF
- Useful life up to 2000 h at 150 °C, high vibration capability

[260 CLA-V](#)

SMALL SIGNAL DIODES

Zener Diodes With Surge Current Specifications, Voltage Range from 3.6 V to 200 V With ± 2 %



- Silicon planar Zener diodes
- Low profile surface-mount package

[BZD27C Series](#)

MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, Rated at 60 V, 75 A 6.2 mΩ



- TrenchFET® power MOSFET
- AEC-Q101 qualified

[SQJA04EP](#)

RESISTORS

Power Metal Plate™ Current Sense Resistors, High Power, Low Value (5 mΩ to 500 mΩ) Surface-Mount



- 2010 and 2512 size package
- Proprietary processing technique produces low resistance values (10 mΩ to 500 mΩ)

[WFMB2010](#)

DIODES AND RECTIFIERS

Surface-Mount TMBS® (Trench MOS Barrier Schottky) Rectifiers



- Very low profile - typical height of 0.95 mm
- Ideal for automated placement

[VSSAF3M10HM3](#)