



Body Electronics Comfort, Door, Window Controls



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

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



- Low resistance values from 0.01 Ω to 0.976 Ω and tolerance of 1 %
- Thick film construction with 2x power capacity

[RCWE](#)

OPTOELECTRONICS

Ambient Light PIN Photodiode
Sensors

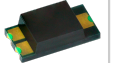


- SMD 0805 package, low profile of 0.85 mm, wide viewing angle of $\pm 60^\circ$
- Spectral sensitivity close to human eye, high signal output linearity

[TEMD6200FX01](#)

OPTOELECTRONICS

SMD Silicon PIN Photodiodes
With Excellent Output Linearity
Characteristics



- SMD 1206 package, daylight blocking filter, wide viewing angle of $\pm 70^\circ$
- Low capacitance of 4.6pF, ideal for noisy environments and small signal detection

[VEMD6160X01](#)

INDUCTORS

Low-Profile, High-Current IHLP®
Inductors



- Excellent high-current performance for noise filters
- High-temperature operation up to 155 °C

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

TANTALUM CAPACITORS

Solid Tantalum Chip Capacitors,
High CV Leadframeless Molded,
Automotive Grade



- TP3 - AEC-Q200 qualified; low ESR; A, B, C, D and E cases
- TP8 - AEC-Q200 qualified

[TP3 / TP8](#)

ALUMINUM CAPACITORS

Aluminum Electrolytic Capacitors
SMD (Chip), High Temperature,
Low Impedance, High Vibration
Capability

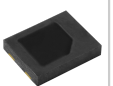


- High temperature, low impedance, high vibration capability
- High ripple current, long useful life

[246 CTI-V](#)

OPTOELECTRONICS

High speed and high sensitivity
PIN Photodiode



- 7.5mm² sensitive area detecting at only 5.2 mm x 4.1 mm outline
- Daylight blocking filter matched with 870 nm to 950 nm emitters
- Reduced crosstalk by innovative package technology

[VEMD5110X01](#)

OPTOELECTRONICS

850 nm SMD Infrared Emitters



- 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 $\pm 60^\circ$

[VSMY5850X01](#)

ALUMINUM CAPACITORS

Ruggedized Electrical Double
Layer Energy Storage Capacitors,
Up to 3 V



- Polarized energy storage capacitor with high capacity and energy density
- Rated voltage: 3.0 V
- Rapid charge and discharge

[235 EDLC-HVR ENYCAP™](#)

CERAMIC CAPACITORS

AEC-Q200 Qualified, Sizes
0603-0805-1206, 50 V, 100 V, and
200 V in X7R



- AEC-Q200 qualified with PPAP available
- Meets ESD AEC-Q200-002B level 6

[GA...EDG Automotive ESD ML-CCs](#)

POWER RECTIFIERS

2 A FRED Pt® Hyperfast Rectifiers



- Hyperfast recovery time, reduced Qrr, and soft recovery
- 175 °C maximum operating junction temperature

[VS-2EJH01HM3](#)

MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, Rated at 40 V, 6 m&



- TrenchFET® Gen IV power MOSFET
- AEC-Q101 qualified

[SQJ152EP](#)

RESISTORS

Thin Film Resistors, 1.0 & 3.01 MΩ, 0201 to 1210 Case Sizes, 25 V to 200 V



- Superior moisture resistivity (85 °C; 85 % RH)
- Excellent overall stability at different environmental conditions |R/R| ≤ 0.05 % after 1000 h at 70 °C
- Wide range of sizes and ohmic values

[TNPW e3](#)

CERAMIC CAPACITORS

Automotive Grade, Leaded MLCC Capacitors

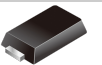


- High operating temperature up to 200 °C
- AEC-Q200 qualified

[K...G and A...P](#)

POWER RECTIFIERS

1A 60V (Trench MOS Barrier Schottky) Rectifier



- Low-profile MicroSMP package for low-voltage, high-frequency inverters; DC/DC converters; and polarity protection applications
- Very low profile - typical height of 0.65 mm

[MSS1P6HM3](#)

MOSFETs

N-Channel MOSFETs in 5 mm x 6 mm PowerPAK®, Rated at 40 V, 30 A per Leg, 5.2 m&



- TrenchFET® power MOSFET
- AEC-Q101 qualified

[SQJB48EP](#)