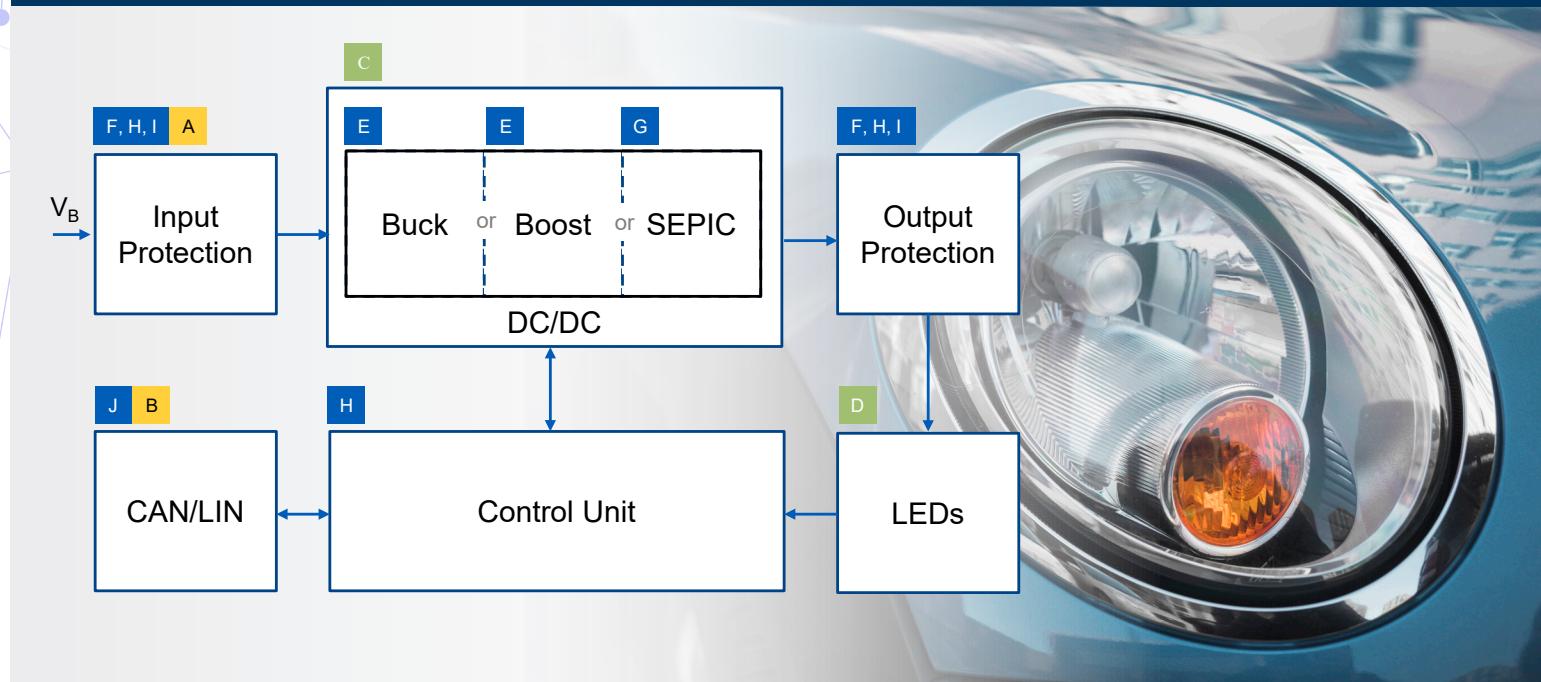


Automotive LED lighting

Whether serving as headlights, daytime running lights, turn indicators, etc. LED lights offer enhanced design flexibility and improved energy efficiency. Today's automotive electronic components enable manufacturers to develop a more advanced design that handles higher voltages and a wider array of high-power LEDs at elevated current in a smaller footprint.

How electronic components used here?



	Product	Series	Function
A	High power TVS diode automotive rated	SMx / xKPE High power TVS diode	Surge / Load dump protection
B	ESD TVS diode automotive rated	STS32 ESD TVS diode	CAN bus ESD protection
C	Current sensing resistor	Metal strip resistors, Metal film resistors, Metal shunts	Current sensing
D	NTC Thermistor (Coming soon)	Nxx NTC Thermistor	Temperature sensing
E	High current molded inductor, Low profile molded inductor, Semi-shielded inductor, Shielded inductor	HCM1A, MPIA, EXLA, SDCxA, DRA	DC/DC (Buck/Boost)
F			Differential mode filter
G	High current molded coupled inductor, Dual/coupled shielded inductor	HSCA, DRAQ	DC / DC (SEPIC)
H	Ferrite chip bead, Multilayer chip inductor	MFBA, MCLA	Noise reduction
I	Automotive common mode choke	CMLA	Common Mode Filter, power line
J	CAN-Ethernet inductor	ACE1V / ACE2V	Common Mode Filter, data line

Recommended products



High power TVS diode automotive rated

- 200 W to 12000 W peak pulse capability
- SMx and xKPE packages
- Automotive grade (AEC-Q101 qualified)



ESD TVS diodes automotive rated

- Voltages from 3.3 V up to 36 V
- Capacitances down to 0.25 pF
- AEC-Q101 qualified



CHSA Current sense resistor

- 2512 (6432 metric) to 5930 (15076 metric) package
- High power ratings, up to 15 W
- AEC-Q200 qualified



MFLA, MFHA, MFSA Metal film resistor

- 0402 (1005 metric) to 2512 (6432 metric) package
- High power dissipation, low sensing resistance
- AEC-Q200 qualified



MSMA, MSNA, MFFA Metal strip resistor

- 0603 (1608 metric) to 2512 (6432 metric) package
- Power ratings up to 3 W
- AEC-Q200 qualified



EXLA High current molded inductor

- SMT sizes: 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm
- Inductance range: 0.185 μ H to 22 μ H, rated up to 58 A, low DCR
- AEC-Q200, -55 °C to +155 °C



SDCxA Semi-shielded inductor

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- Inductance range: 1.0 μ H to 100 μ H, current range up to 13.5 A, low DCR
- AEC-Q200, -55 °C to +125 °C



DRAQ Dual / coupled shielded inductor

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- 200/500 Vac isolation between windings
- AEC-Q200, +165 °C maximum operating temperature



MFBA Ferrite chip bead

- EIA/Metric sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω , high current up to 6 A
- AEC-Q200, -55 °C to +150 °C (High temperature rating)



MCLA Multilayer chip inductor

- Standard EIA 0402 to 3216 size
- High Q, higher current ratings
- Inductance range: 1.0 nH to 12 μ H
- AECQ Grade 3 qualified



CMLA Automotive common mode choke

- Three most popular SMT sizes: 7 mm, 9 mm, 12 mm
- 700 Ω impedance, rated up to 8 A
- AEC-Q200, -40 °C to +125 °C



ACE CAN-Ethernet inductor

- EIA/Metric sizes: (0805/2012), (1210/3225), (1812/4532)
- Inductance range: 11 μ H to 200 μ H
- AEC-Q200, OPEN Alliance 2.0 (ACE2V), -40 °C to +125 °C



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