

# Automotive Discrete Solutions

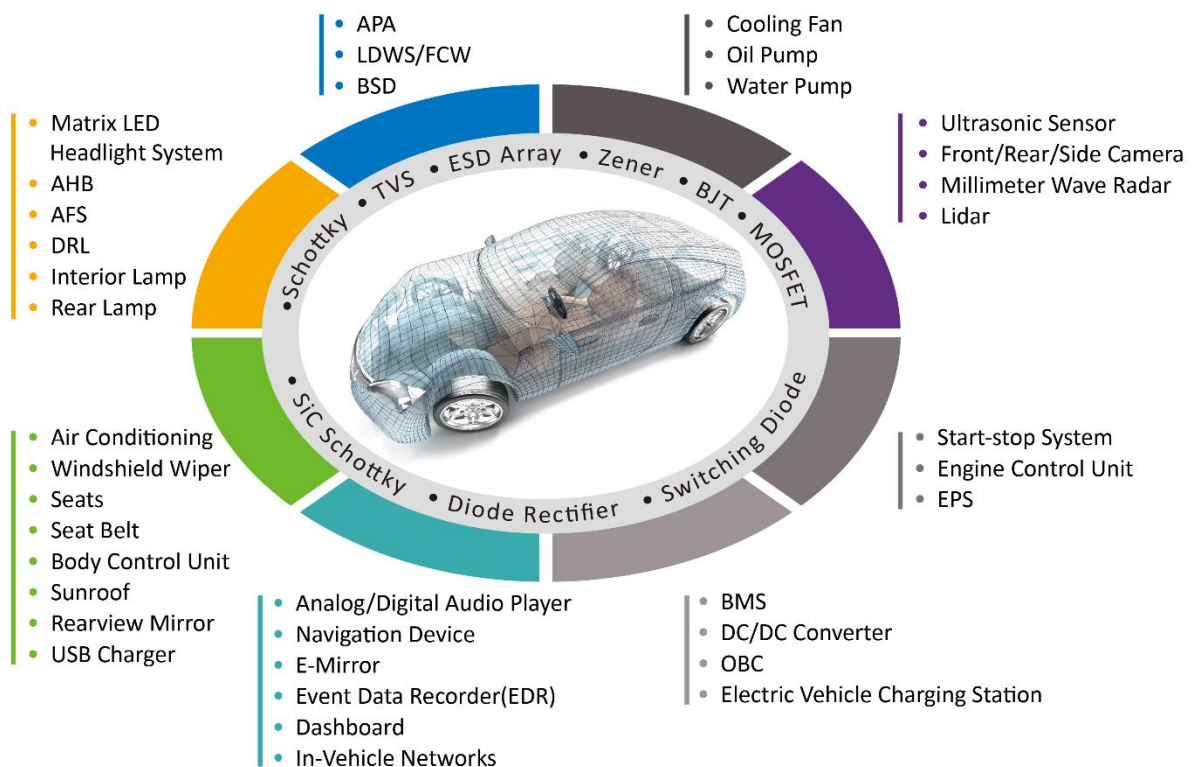
Efficient and reliable automotive solutions

## AEC-Q101 Qualified

As automotive technology advanced, system complexity increases to meet market demands as well. A functional automobile requires detailed system designs and numerous components, including electric vehicle drivetrain system, chassis control unit, body control module, infotainment & telematics, safety & control, lighting and other necessary systems. PANJIT automotive-compliant products are AEC-Q101 qualified, manufactured in facilities qualified to IATF16949 standard, and supported by PPAP (Production Part Approval Process) documentation, thus meeting all the requirements of the automotive electronics industry.

### ➤ PANJIT Automotive Components

PANJIT offers a wide range of automotive-grade components such as switching MOSFETs, ESD/TVS, free-wheeling diodes, flyback diodes and more to enhance vehicle designs and performances.



## ➤ PANJIT Automotive-grade Products

Product Category	Series/Description	Packages
Switching Diode	Series: BAV/BAS/MMBD • Low leakage current	SOT-23/SOT-323/SOT-523/ SOT-363/SOT-563/ SOD-123/SOD-323/SOD-523
General Purpose Rectifier	Series: GS/S • Glass passivated • Low leakage current	SOD-123/SMA/SMB/SMC
Super Fast Recovery Rectifier	Series: MER • Planar construction • Low leakage current • Low switching loss • T <sub>j</sub> (max.)=175°C	SOD-123FL/SOD-123HE/ SMAF-C/SMBF/SMA/SMB
Schottky	Series: H-type Schottky • Planar construction • Low leakage current • High surge current capability • T <sub>j</sub> (max.)=175°C	SOD-123FL/SOD-123HE/ SMAF-C/SMBF/SMA/SMB/TO-277C
Zener	Series: PZD/BZX/BZT • Planar construction	SOD-523/SOD-323/SOT-323
ESD Protection Diode	Series: PEC/PJSD/PJG/PJM/PJS/PE16/ PJMBZ • Low leakage current • Low capacitance	SOD-523/SOD-323/SOT-23/ SOT-23 6L/SOT-363/ DFN1006/DFN2510
TVS	Series: 5KMC/P6/P4 • Excellent clamping capability	SMA/SMB/SMC
Load Dump TVS	Series: SM5/SM6/SM8 • Meets ISO 7637-2/ISO16750-2 surge standards	DO-218AB
General Transistor	Series: BC/MMBT	SOT-363/SOT-323/ SOT-23/SOT-23 6L
Low V <sub>CE(sat)</sub> Transistor	Series: BCX/BCP/PBHB • Low V <sub>ce(sat)</sub> • Excellent DC current gain	SOT-23/SOT-89/SOT-223
Small Signal MOSFET	Series: 2N/PJA/PJC/PJE/PJQ/PJT/PJX • Low voltage drive • Package miniaturization	DFN1006-3L/SOT-23/SOT-323/SOT-363/ SOT-523/SOT-563
Power MOSFET	Series: PJD/PJQ/PJW • Excellent FOM (R <sub>DS(ON)</sub> × Q <sub>g</sub> )	DFN2020B-6L/DFN3333-8L/ DFN5060-8L/DFN5060B-8L/ SOT-223/TO-252AA/ TOLL
SiC Diode	• Zero reverse recovery • Low conduction loss • High surge current capability	TO-247AD-3LD