

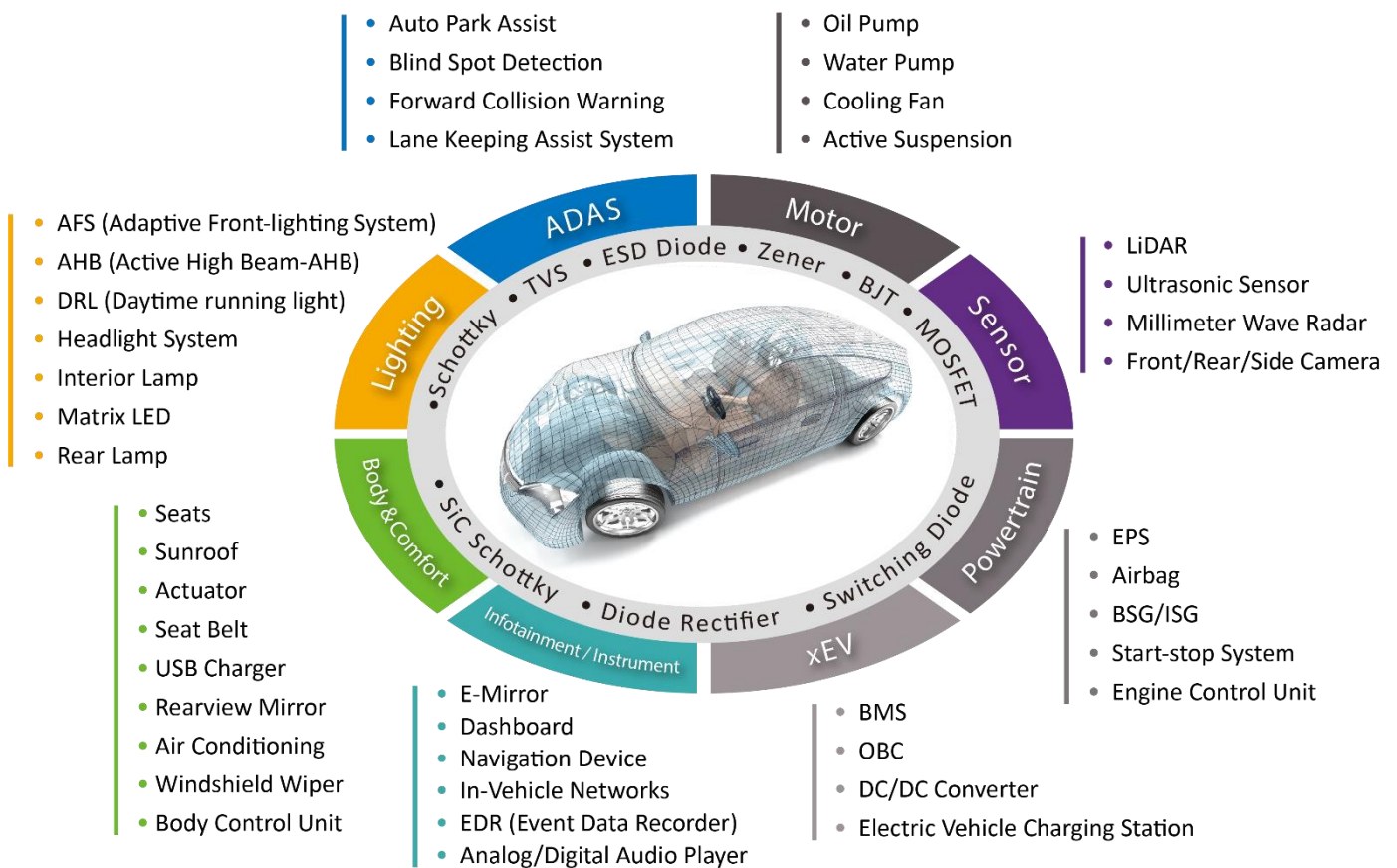
Automotive Solutions

Efficient and reliable AEC-Q101 qualified solutions

AEC-Q101 Qualified

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

➤ Automotive Applications



➤ 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 • Tj (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 • Tj (max.)=175°C	SOD-123FL/SOD-123HE/ SOD-323HE/ 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 • Low leakage current • Low capacitance	SOD-123/SOD-523/SOD-323/ SOT-23/SOT-23 6L/SOT-323/ SOT-363/SOT-523/DFN1006
TVS	Series: 5KMC/P6/P4/1K5PC • Excellent clamping capability	SMA/SMB/SMC/TO-277C
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 $V_{CE(sat)}$ Transistor	Series: BCX/BCP/PBHB • Low $V_{ce(sat)}$ • 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/PJN/PJM • Excellent FOM ($R_{DS(ON)} \times Q_g$)	DFN2020B-6L/DFN3333-8L/ DFN5060X-8L/SOT-223/ TO-252AA/ TO-263AB/TOLL/sTOLL