SOD123Flat
Automotive-grade rectifiers

Housed in an SOD123Flat package – only 26 mg and 1 mm thick – ST's qualified 60 and 100 V power Schottky rectifiers are suited for miniature LED lighting, battery-powered equipment, power converters, motor drives, reverse battery protection in automotive applications and equipment installed in harsh industrial environments thanks to a $T_J$ range from –40 to 175 °C.

Current-rated 1 and 2 A, with a $V_{RRM}$ of 40, 60 and 100 V, these new power Schottky devices with low leakage current for the 'H' series will push the limit of thermal runaway risk and also improve the global performance with the low forward voltage series labeled 'L' series.

**KEY FEATURES**
- 1 A, 2 A, 40, 60 V and 100 V power Schottky diodes
- SOD123Flat smart package, only 1-mm thick
- Automotive-grade qualified
- AEC-Q101 qualified and PPAP capable
- $T_J$ range from –40 to +175 °C
- ECOPACK®2 resin, RoHS-compliant packages

**TARGETED APPLICATIONS**
- LED lighting systems
- Small DC/DC converters (flyback, buck, and buck-boost topologies)
- Reverse battery protection circuits

www.st.com/automotive-schottky-sod123flat
BLOCK DIAGRAM
Small buck converter example

PACKAGE RANGE

STPS1L40ZFY / STPS1L60ZFY / STPS2H100ZFY / STPS2L40ZFY / STPS2L60ZFY
SOD123Flat non-exposed pad package

SOD123FLAT AUTOMOTIVE-GRADE POWER SCHOTTKY DIODE SELECTION GUIDE

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<th>1 A</th>
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<td><strong>SOD123Flat</strong></td>
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