

# SOD128Flat Rectifiers



## SOD128Flat power Schottky diodes for improved cost and space savings

Housed in an SOD128Flat 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 and equipment installed in harsh industrial environments thanks to a  $T_j$  range from  $-40$  to  $+175$  °C. Almost 60% thinner than the standard 2.4 mm-high SMA package – while fully footprint compatible – designers can create lighter and slimmer modules, or easily use these as replacements in existing designs. Current-rated 3 A, with a  $V_{RRM}$  of 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.

### KEY FEATURES

- 3 A, 60 V and 100 V power Schottky diodes
- SOD128Flat smart package, only 1-mm thick
- Low  $I_r$  capability
- Footprint compatible with standard SMA package
- $T_j$  range from  $-40$  to  $+175$  °C
- ECOPACK®2 resin, RoHS-compliant packages

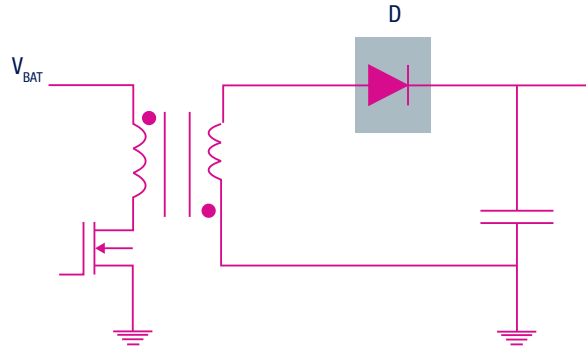
### TARGETED APPLICATIONS

- LED and general lighting systems
- Small DC/DC converters (flyback, buck, and buck-boost topologies)
- Point-of-load (POL) converters
- Ultra-thin adaptors
- Smart chargers

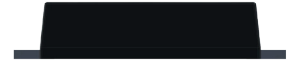


## BLOCK DIAGRAM

### Flyback converter example



## PACKAGE RANGE



STPS360AF / STPS3H100AF  
SOD128Flat non-exposed pad package

## SOD128FLAT POWER SCHOTTKY SELECTION GUIDE

	3 A	5A
	SOD128Flat	
60 V	STPS360AF	
100 V	STPS3H100AF	STPS5H100AF*

Note \* New



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