



Planar Schottky Rectifiers in FlatPak 5 x 6 Package

INCREASE POWER DENSITY AND SURGE PERFORMANCE

PRODUCT BENEFITS:

Reverse voltages of 40 V, 100 V, 170 V

High current capability up to 30 A
in a small footprint

Compact, space-saving design

Low forward drop,
low power losses



High surge performance

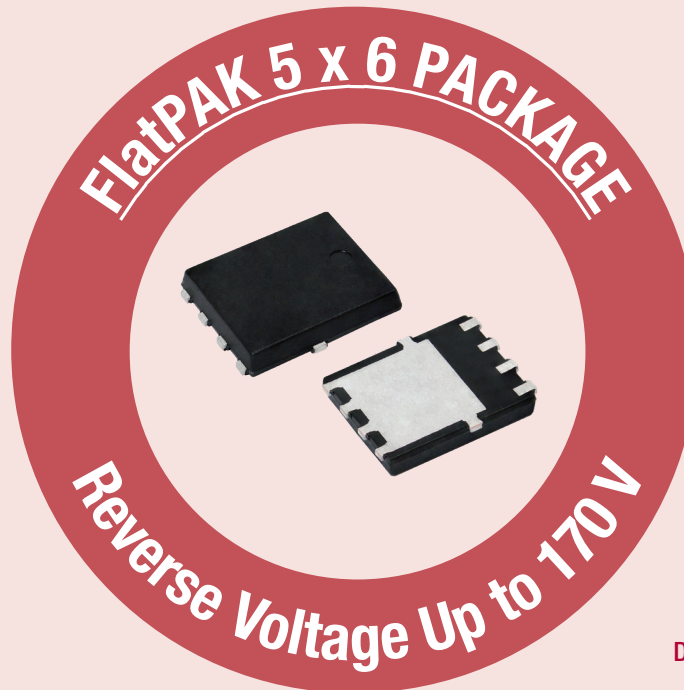


AEC-Q101 qualified and
Automotive Grade available



Operating junction temperature range

- 40 °C to +175 °C



APPLICATIONS

- Antiparallel diode for GaN and Si transistors
- Freewheeling diode for hot-swap circuits
- Snubber diode for adsorbing excess energy
- Rectifier for AC/DC and DC/DC converters
- Boost and bulk diode for LED lighting
- Reverse polarity protection



DC/DC CONVERTERS
FREEWHEELING



AUTOMOTIVE



INDUSTRIAL

PN	V_{RRM}	I_F	V_F at 125 °C (typ.)	I_R at 125 °C (typ.)	I_{FSM}	T_J (max.)
	V	A	V	mA	A	°C
SS20KH170	170	20	0.73	0.25	300	175
SS30KH170S	170	30	0.79	0.3	360	175
SS30KH170	170	30	0.73	0.4	420	175
SS20KH102	100	20	0.65	0.55	400	175
SS30KH102	100	30	0.65	0.65	420	175
SS20K42	40	20	0.5	19	400	150
SS30K42	40	30	0.48	40	420	150

For technical questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com