

600V FRED added to a Family of popular SMPC4.6U packaged devices

Taiwan Semiconductor (TSC), a global supplier of discrete power electronics devices, LED drivers, analog ICs and ESD protection devices, announces an additional 600V Ultra fast diode to the family of SMPC4.6U devices.



SMPC4.6U

The SMPC4.6U wettable flank package FRED device is designed to exceed stringent automotive requirements for reliability and manufacturability. Thermal resistance is reduced by exposed thermal pads increasing contact surface area to transfer heat into the PCB and reducing parasitic DC resistance. SMPC4.6U devices are 64% smaller than a SMC package with greatly improved power density, capable of high temperature operation. Applications in automotive power electronics, industrial and datacom. Samples and complete devices models are available.

FEATURES

- Planar technology
- Low power loss, high efficiency
- Wettable flank
- RoHS Compliant
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

- DC to DC converter
- Switching mode converters and inverters
- PFC application
- Freewheeling application

Product portfolio

Technology	Part Number	V_{RRM} (V)	I_F (A)	V_F (V)	I_R (μ A)	T_{rr} (ns)
UF Planar	PUUP3J	600	3	1.7	2	25
UF Planar	PUUP6J	600	6	1.8	2	25
UF Planar	PUUP8J	600	8	2	5	25
UF Planar	PUUP10J	600	10	2	5	25
UF Planar	PUUP12J	600	12	2.1	5	25

For more information or other products, please visit TSC website - <http://www.taiwansemi.com/>