Featured Product - FRED Pt[®] Series

The Vishay Semiconductors FRED Pt® Gen1 and Gen2 series of ultrafast diodes offers designers a highly flexible solution that's equally at home in consumer and automotive

With ratings from 200 V to 600 V and from 3 A to 150 A -

unique in the industry - this series allows designers to increase the efficiency of power supplies with devices designed to minimize conduction and/or switching losses. Their extreme low leakage current at high temperature, careful design of chip terminations, and construction with



FRED Pt[®] Series 200 V to 600 V, T_J max. 175 °C: Flexible Ultrafast Platform for Power Supplies and Inverters



SMA







www.vishay.com

SMB

SMC



DPAK (TO-252) (rated 4 A to 15 A)





TO-220AC/TO-220AB/Isolated TO-220AC (rated 8 A to 30 A)



TO-220FPAC/AB (rated 8 A to 30 A)



D²PAK (TO-263) (rated 8 A to 30 A)



1²PAK (TO-262) (rated 8 A to 30 A)



TO-247AC (rated 30 A to 60 A)



PowerTab[®] (rated 80 A to 150 A)

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high-quality materials make FRED Pt the ideal choice for automotive applications as well. **FEATURES**

V_{RRM} 200 V to 600 V

applications.

- · Same current (A) rating is available for devices optimized for lowest conduction losses or lowest switching losses.
- Lowest Qrr at 125 °C - Lowest V_F at I_F
- Improved efficiency in SMPS
- Soft recovery for reduced EMI at high dl_F/dt
- T_{.1} (max.) 175 °C
- AEC-Q101 gualified
- · Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Note

Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

APPLICATIONS

- Power factor correction (PFC) for switchmode power supplies in:
 - Desktop PCs
 - Lighting/ballast
 - Servers and telecom
 - PDP, TV's, LCD, monitors
 - Game controllers
- ECU for fuel injection on diesel/gasoline-fueled systems
- Traction control systems
- Solar inverters
- · Freewheeling diode for industrial applications



RoHS COMPLIANT HALOGEN FREE



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