



New FRED Pt[®] Gen 5 600 V Ultrafast Rectifiers in the TO-244 Package Offer Best in Class Conduction and Switching Losses to Increase Efficiency in Industrial Applications

Product Benefits:

- Offered in the TO-244 package
- Available with forward currents of 240 A, 300 A, 480 A, and 600 A (per module)
- Low Q_{rr} down to 260 nC typical
- Fast recovery time down to 52 ns
- High operating temperature range up to +175 °C



Market Applications:

- High frequency welding and ballast water management systems

The News:

Vishay Intertechnology introduces four new FRED Pt[®] Gen 5 600 V Ultrafast rectifiers in the TO-244 package. Offering the best conduction and switching loss trade-off for devices in their class, the 240 A, 300 A, 480 A, and 600 A Vishay Semiconductors rectifiers are designed to increase the efficiency of medium frequency power converters and of hard- and soft-switched or resonant designs.

- Compared to competing FRED Pt Ultrafast solutions in the TO-244 package, the VS-VS5HD240CW60, VS-VS5HD300CW60, VS-VS5HD480CW60, and VS-VS5HD600CW60 offer lower conduction, while maintaining low reverse recovery losses

The Key Specifications:

Part number	V_R (V)	$I_{F(AV)}$ (A)	Q_{rr} typical (nC)	t_{rr} (ns)	Package
VS-VS5HD240CW60	600	240 at 95 °C	260	52	TO-244
VS-VS5HD300CW60	600	300 at 81 °C	620	68	TO-244
VS-VS5HD480CW60	600	480 at 92 °C	525	61	TO-244
VS-VS5HD600CW60	600	600 at 77 °C	800	78	TO-244

Availability:

Samples of the new FRED Pt rectifiers are available now. Production quantities are available with lead times of 40 weeks.

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?96922> (VS-VS5HD240CW60)

<http://www.vishay.com/ppg?96923> (VS-VS5HD300CW60)

<http://www.vishay.com/ppg?96924> (VS-VS5HD480CW60)

<http://www.vishay.com/ppg?96925> (VS-VS5HD600CW60)



NEW PRODUCT INFORMATION

Product Group: Vishay Semiconductors, Rectifiers / Aug 2022



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