



The DNA of tech.®

FRED Pt® 500 A Ultrafast Soft Recovery Diode Modules New TO-244 Gen III Package With Improved Ruggedness for Long Life-Cycles Expectancy

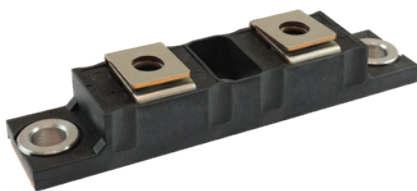


ADVANTAGE

Offering higher reliability than previous-generation solutions, the devices are designed to reduce losses and EMI / RFI in high frequency power conditioning systems

KEY PRODUCT FEATURES

- ✓ Industry-standard package is footprint-compatible with competing solutions in the TO-244 to provide a drop-in replacement for existing designs
- ✓ Low forward voltage drop down to 0.82 V
- ✓ Thermal resistance R_{thJC} of 0.16 °C/W
- ✓ Common cathode configuration
- ✓ High operating temperature range up to +175 °C



MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile infrastructure



MOBILITY

- Transportation



INDUSTRIAL

- Drives and tools
- Infrastructure

DEVICE SPECIFICATION TABLE

Part number	VS-VSUD505CW60	VS-VSUD510CW60
V_R (V)	600	
$I_{F(AV)}$ (A)	500	
Q_{rr} typical (nC)	460	1770
t_{rr} (ns)	178	270
V_{FM} at 250 A, +175 °C (V)	0.95	0.82
R_{thJC} per diode (°C/W)	0.16	
Package	TO-244	

RESOURCES



[Order Samples](#)



[Product Page VS-VSUD505CW60](#)



[Product Page VS-VSUD510CW60](#)



[Contact Us Americas](#)



[Contact Us Asia](#)



[Contact Us Europe](#)



[Application Notes](#)