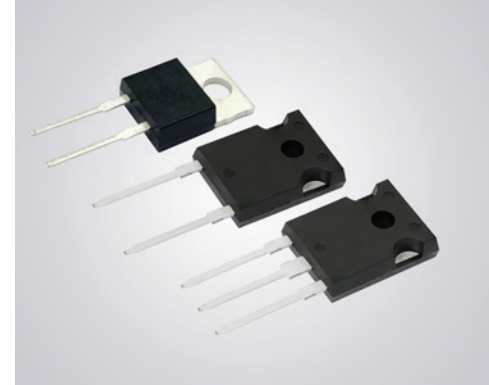




The DNA of tech.™

15 A to 75 A FRED Pt[®] Gen 5 600 V Hyperfast and Ultrafast Rectifiers

Offering the best reverse recovery performance for devices in their classes



PRODUCT BENEFITS

- Forward currents of 15 A, 30 A, 60 A, and 75 A
- Offered in TO-220AC and TO-247AD packages
- Available in X-type hyperfast and H-type ultrafast speed classes
 - X-type devices offer the advantage of lower Q_{RR}
 - H-type rectifiers feature lower forward voltage
- High temperature operation to +175 °C
- RoHS-compliant and halogen-free

MARKET APPLICATIONS

- High speed LLC output rectification stages for EV / HEV battery charging stations and high frequency stages for UPS applications

SAMPLES

- Samples and production quantities are available now with lead times of 12 weeks for larger orders

RESOURCES

- Datasheets: please see next page for the list of FRED Pt[®] Gen 5 600 V hyperfast and ultrafast rectifiers available in the TO-220AC and TO-247AD packages
- For technical questions, contact:
DiodesAmericas@vishay.com,
DiodesEurope@vishay.com,
DiodesAsia@vishay.com
- Material categorization: for definitions of compliance, please see www.vishay.com/doc?99912



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KEY SPECIFICATIONS

- 600 V FRED Pt® Gen 5 hyperfast and ultrafast rectifiers in the TO-220AC 2L, TO-247AD 2L, and TO-247AD 3L packages

PART NUMBER	V _R (V)	SPEED CLASS	I _{F(AV)} (A)	V _F TYP. (V) ⁽¹⁾	Q _{RR} TYP. (nC) ⁽²⁾	t _{rr} TYP. (ns) ⁽³⁾	PACKAGE	AEC-Q101 Qualified
VS-E5TH1506-M3	600	H	15	1.15	782	22	TO-220AC 2L	No
VS-E5TX1506-M3	600	X	15	1.3	578	19	TO-220AC 2L	
VS-E5TH3006-M3	600	H	30	1.15	1560	25	TO-220AC 2L	
VS-E5TX3006-M3	600	X	30	1.3	952	22	TO-220AC 2L	
VS-A5PH3006L-N3	600	X	30	1.15	1560	25	TO-247AD 3L	
VS-E5PH3006L-N3	600	H	30	1.15	1560	25	TO-247AD 2L	
VS-A5PX3006L-N3	600	X	30	1.3	952	22	TO-247AD 3L	
VS-E5PX3006L-N3	600	X	30	1.3	952	22	TO-247AD 2L	
VS-A5PH6006L-N3	600	H	60	1.2	2385	29	TO-247AD 3L	
VS-E5PH6006L-N3	600	H	60	1.2	2385	29	TO-247AD 2L	
VS-A5PX6006L-N3	600	X	60	1.4	1568	26	TO-247AD 3L	
VS-E5PX6006L-N3	600	X	60	1.4	1568	26	TO-247AD 2L	
VS-E5PH7506L-N3	600	H	75	1.2	2515	32	TO-247AD 2L	
VS-E5PX7506L-N3	600	X	75	1.4	1731	29	TO-247AD 2L	
VS-E5TH1506THN3	600	H	15	1.15	782	22	TO-220AC 2L	Yes
VS-E5TX1506THN3	600	X	15	1.3	578	19	TO-220AC 2L	
VS-E5TH3006THN3	600	H	30	1.15	1560	25	TO-220AC 2L	
VS-E5TX3006THN3	600	X	30	1.3	952	22	TO-220AC 2L	
VS-A5PH3006LHN3	600	H	30	1.15	1560	25	TO-247AD 3L	
VS-E5PH3006LHN3	600	H	30	1.15	1560	25	TO-247AD 2L	
VS-A5PX3006LHN3	600	X	30	1.3	952	22	TO-247AD 3L	
VS-E5PX3006LHN3	600	X	30	1.3	952	22	TO-247AD 2L	
VS-A5PH6006LHN3	600	H	60	1.2	2385	29	TO-247AD 3L	
VS-E5PH6006LHN3	600	H	60	1.2	2385	29	TO-247AD 2L	
VS-A5PX6006LHN3	600	X	60	1.4	1568	26	TO-247AD 3L	
VS-E5PX6006LHN3	600	X	60	1.4	1568	26	TO-247AD 2L	
VS-E5PH7506LHN3	600	H	75	1.2	3090	32	TO-247AD 2L	
VS-E5PX7506LHN3	600	X	75	1.4	2048	29	TO-247AD 2L	

Notes

⁽¹⁾ I_F = rated current, T_J = 125 °C

⁽²⁾ T_J = 125 °C, I_F = rated current A, V_R = 400 V, di_F/dt = 1000 A/μs

⁽³⁾ T_J = 25 °C, I_F = 1 A di_F/dt = 100 A/μs, V_R = 30 V

Click on the part numbers to access the product's datasheet, 3D models, stock availability, and more.



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