



# FRED Pt<sup>®</sup> RECTIFIERS IN SlimDPAK PACKAGE

INCREASE POWER DENSITY AND IMPROVE THERMAL PERFORMANCE

# IN A NUTSHELL

Reverse voltages: 200 V and 600 V



Ultrafast recovery times down to 14 ns

Low forward drop reduces power losses and improves efficiency



Footprint compatible with DPAK with 43 % lower profile for slimmer end products while heatsink area is 14 % larger for lower thermal resistance



and Commercial / Industrial Versions Available



FRED Pt<sup>®</sup> (Fast Recovery Epitaxial Diodes) products are based on a Pt doping technology that allows **maximum operating junction temperature**



Up to 175 °C

## APPLICATIONS



AUTOMOTIVE  
ECU, ABS, and  
HID / LED lighting



COMMERCIAL / INDUSTRIAL  
Telecom power supplies



DC/DC CONVERTERS

Vishay P/N	I <sub>F(AV)</sub> (A)	V <sub>BR</sub> (V)	V <sub>F</sub> (V)	at I <sub>F</sub> (A)	t <sub>tr</sub> (ns)	I <sub>FSM</sub> (A)	T <sub>J</sub> max. (°C)	AEC-Q101 Available
<a href="#">VS-4EVH02HM3</a>	4	200	0.71	4	16	100	175	Yes
<a href="#">VS-4EVH02-M3</a>	4	200	0.71	4	16	100	175	No
<a href="#">VS-6CVH02HM3</a>	2 x 3	200	0.75	3	20	140	175	Yes
<a href="#">VS-6CVH02-M3</a>	2 x 3	200	0.75	3	16	100	175	No
<a href="#">VS-8CVH02HM3</a>	2 x 4	200	0.71	4	16	200	175	Yes
<a href="#">VS-8CVH02-M3</a>	2 x 4	200	0.71	4	16	200	175	No
<a href="#">VS-10CVH02HM3</a>	2 x 5	200	0.74	5	16	200	175	Yes
<a href="#">VS-10CVH02-M3</a>	2 x 5	200	0.74	5	16	200	175	No
<a href="#">VS-6EVL06HM3</a>	6	600	0.98	6	34	80	175	Yes
<a href="#">VS-6EVL06-M3</a>	6	600	0.98	6	34	80	175	No
<a href="#">VS-6EVH06HM3</a>	6	600	1.26	6	16	70	175	Yes
<a href="#">VS-6EVH06-M3</a>	6	600	1.26	6	16	70	175	No
<a href="#">VS-6EVX06HM3</a>	6	600	1.65	6	14	50	175	Yes

Vishay P/N	I <sub>F(AV)</sub> (A)	V <sub>BR</sub> (V)	V <sub>F</sub> (V)	at I <sub>F</sub> (A)	t <sub>tr</sub> (ns)	I <sub>FSM</sub> (A)	T <sub>J</sub> max. (°C)	AEC-Q101 Available
<a href="#">VS-6EVX06-M3</a>	6	600	1.65	6	14	50	175	No
<a href="#">VS-8EVL06HM3</a>	8	600	0.98	8	34	130	175	Yes
<a href="#">VS-8EVL06-M3</a>	8	600	0.98	8	34	130	175	No
<a href="#">VS-8EVH06HM3</a>	8	600	1.30	8	16	90	175	Yes
<a href="#">VS-8EVH06-M3</a>	8	600	1.30	8	16	90	175	No
<a href="#">VS-8EVX06HM3</a>	8	600	1.40	8	14	80	175	Yes
<a href="#">VS-8EVX06-M3</a>	8	600	1.40	8	14	80	175	No
<a href="#">VS-15EVL06HM3</a>	15	600	0.98	15	38	180	175	Yes
<a href="#">VS-15EVL06-M3</a>	15	600	0.98	15	38	180	175	No
<a href="#">VS-15EVL06HM3</a>	15	600	1.10	15	26	160	175	Yes
<a href="#">VS-15EVL06-M3</a>	15	600	1.10	15	26	160	175	No
<a href="#">VS-15EVH06HM3</a>	15	600	1.20	15	20	120	175	Yes
<a href="#">VS-15EVH06-M3</a>	15	600	1.20	15	20	120	175	No

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