



FRED Pt[®] RECTIFIERS IN SMPD (TO-263AC)

OFFER HIGHER POWER DENSITY

IN A NUTSHELL

FEATURES

- Hyperfast and ultrafast recovery
- Fast and soft recovery (down to 25 ns)
- Low forward voltage drop (down to 0.75 V typ.)
- AEC-Q101 qualified

REDUCED POWER LOSSES



Reduced noise



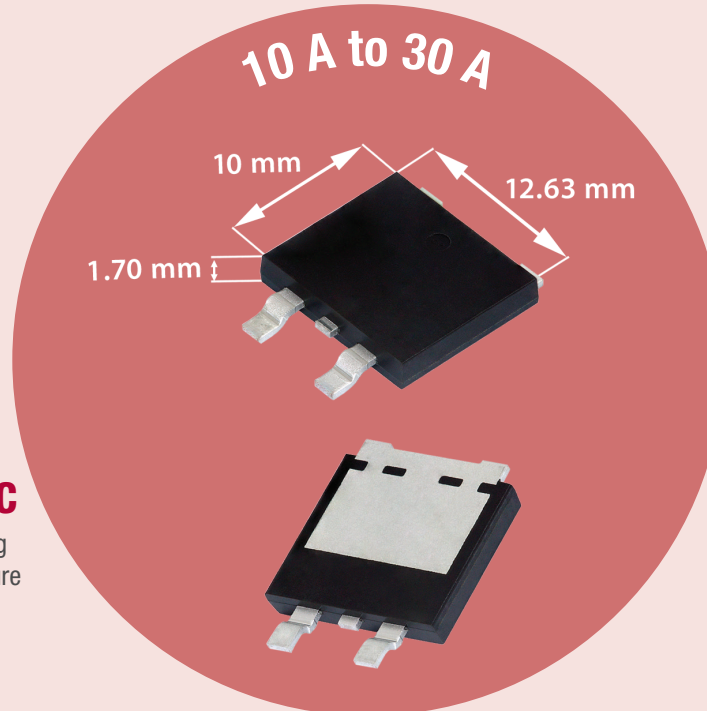
Reduced EMI

MORE EFFICIENT DESIGNS

FRED Pt[®] technology allows high operating temperatures to **+175 °C**

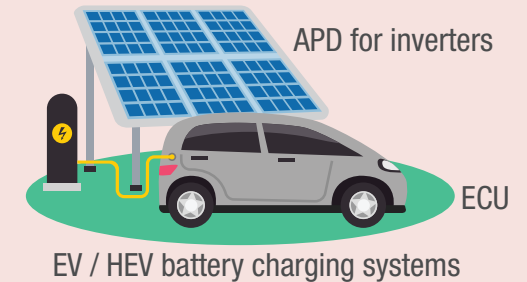


+175 °C
operating temperature



APPLICATIONS

AUTOMOTIVE and INDUSTRIAL



SMPD package is compatible with **D²PAK footprint** but with **lower profile**



Vishay P/N	Type	Diode Variation	I _{F(AV)} (A)	V _R (V)	V _F Typ at Rated I (V)	T _{rr} Typ (ns)	AEC-Q101
VS-10CDH06-M3	Hyperfast	Dual	2 x 5	600	1	35	No
VS-10CDH06HM3	Hyperfast	Dual	2 x 5	600	1	35	Yes
VS-12CDU06-M3	Ultrafast	Dual	2 x 6	600	0.89	45	No
VS-12CDU06HM3	Ultrafast	Dual	2 x 6	600	0.89	45	Yes
VS-16CDH02-M3	Hyperfast	Dual	2 x 8	200	0.77	27	No
VS-16CDH02HM3	Hyperfast	Dual	2 x 8	200	0.77	27	Yes
VS-16CDU06-M3	Ultrafast	Dual	2 x 8	600	0.94	45	No
VS-16CDU06HM3	Ultrafast	Dual	2 x 8	600	0.94	45	Yes

Vishay P/N	Type	Diode Variation	I _{F(AV)} (A)	V _R (V)	V _F Typ at Rated I (V)	T _{rr} Typ (ns)	AEC-Q101
VS-16EDH02-M3	Hyperfast	Single	16	200	0.75	32	No
VS-16EDH02HM3	Hyperfast	Single	16	200	0.75	32	Yes
VS-16EDU06-M3	Ultrafast	Single	16	600	0.91	55	No
VS-16EDU06HM3	Ultrafast	Single	16	600	0.91	55	Yes
VS-20CDH02-M3	Hyperfast	Dual	2 x 10	200	0.77	25	No
VS-20CDH02HM3	Hyperfast	Dual	2 x 10	200	0.77	25	Yes
VS-30CDU06-M3	Ultrafast	Dual	2 x 15	600	0.9	55	No
VS-30CDU06HM3	Ultrafast	Dual	2 x 15	600	0.9	55	Yes

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