



1200 V FRED Pt[®] Gen 7 Hyperfast Rectifiers

VS-E7MH0112-M3 AND VS-E7MH0112HM3

Fast recovery time of 75 ns

Low Q_{rr} down to 150 nC typical

Low 1.10 V typical forward voltage drop

Improved reverse recovery energy (E_{rec})

Low junction capacitance

Moisture sensitivity level of 1 in accordance with J-STD-020



Operating temperature range: -55 °C to +175 °C



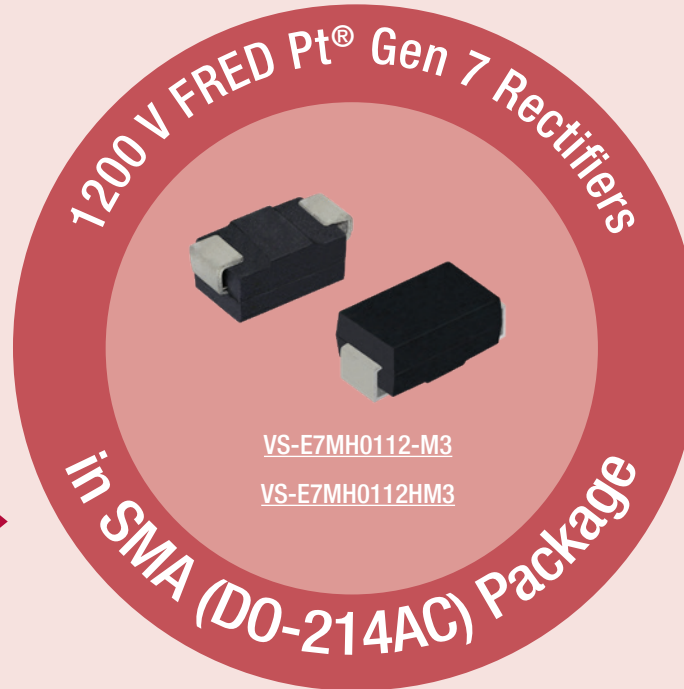
AEC-Q101 qualified and Vishay Automotive Grade



Forward current of 1 A



Blocking voltage of 1200 V



APPLICATIONS

- Clamp, snubber, and freewheeling diodes in flyback auxiliary power supplies and high frequency rectifiers for bootstrap driver functionality
- Desaturation protection for the latest fast switching IGBTs and Si / SiC MOSFETs
- Industrial and telecom equipment, on-board chargers and motors for electric vehicles (EV), and Ćuk converters and industrial LED PFC CrM SEPIC circuitry



AUTOMOTIVE



INDUSTRIAL



EV BATTERY CHARGING



TELECOM INFRASTRUCTURE

Automotive and Non-Automotive Portfolio

Part Number	$I_{F(AV)}$	Reverse Voltage (V)	V_F at I_F	t_{rr}	T_J max.	Circuit Configuration	AEC-Q101 Qualified
VS-E7MH0112-M3	1	1200	1.1	75	175	Single	No
VS-E7MH0112HM3	1	1200	1.1	75	175	Single	Yes

For technical questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com