

2 A and 3 A FRED Pt[®] Ultrafast Rectifiers in SlimSMAW Package Increase Reliability and Improve AOI

100 V and 200 V devices are footprint-compatible with SOD-128 package and offer larger lead widths than SlimSMA package



PRODUCT BENEFITS

- High current density
- Available in eSMP[®] series low profile (1.0 mm) SlimSMAW (DO-221AD) package
- Stronger adhesion to the PCB for automated optical inspection (AOI) in automotive systems
- Improved thermal performance
- Ultrafast recovery times down to 15 ns
- Low forward voltage drop of 0.69 V reduces power losses and improves efficiency
- Soft recovery features over the entire working temperature range of -55 °C to +175 °C
- AEC-Q101 qualified versions available
- MSL moisture sensitivity level of 1, per J-STD-020, LF maximum peak of +260 °C
- RoHS-compliant and halogen-free

MARKET APPLICATIONS

- High frequency inverters, DC/DC converters, freewheeling diodes, and power factor correction in automotive engine control units (ECU), anti-lock braking systems (ABS), and HID and LED lighting, and telecom and industrial power supplies

SAMPLES

- Samples and production quantities are available now with lead times of 14 weeks for large orders

RESOURCES

- Datasheets: please see next page for the list of new FRED Pt[®] ultrafast rectifiers now available in the SlimSMAW package
- 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



KEY SPECIFICATIONS

- 2 A and 3 A FRED Pt[®] ultrafast rectifiers in SlimSMAW (DO-221AD) package

PART NUMBER	$I_{F(AV)}$ (A)	V_{BR} (V)	TYPICAL V_F AT I_F AT T_J		t_{tr} ⁽¹⁾ (ns)	Q_{tr} ⁽²⁾ (nC)	AEC-Q101 AVAILABLE
			V_F (V)	I_F (A)			
VS-2EYH01-M3	2	100	0.69	2	15	20	No
VS-2EYH01HM3	2	100	0.69	2	15	20	Yes
VS-2EYH02-M3	2	200	0.69	2	15	20	No
VS-2EYH02HM3	2	200	0.60	2	15	20	Yes
VS-3EYH01-M3	3	100	0.71	3	16	23	No
VS-3EYH01HM3	3	100	0.71	3	16	23	Yes
VS-3EYH02-M3	3	200	0.71	3	16	23	No
VS-3EYH02HM3	3	200	0.71	3	16	23	Yes

Notes

⁽¹⁾ $T_J = 25\text{ }^\circ\text{C}$, $I_F = 1\text{ A}$, $di_F/dt = 100\text{ A}/\mu\text{s}$, $V_R = 30\text{ V}$

⁽²⁾ $T_J = 25\text{ }^\circ\text{C}$, $I_F = \text{rated current}$, $di_F/dt = 200\text{ A}/\mu\text{s}$, $V_R = 100\text{ V}$

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