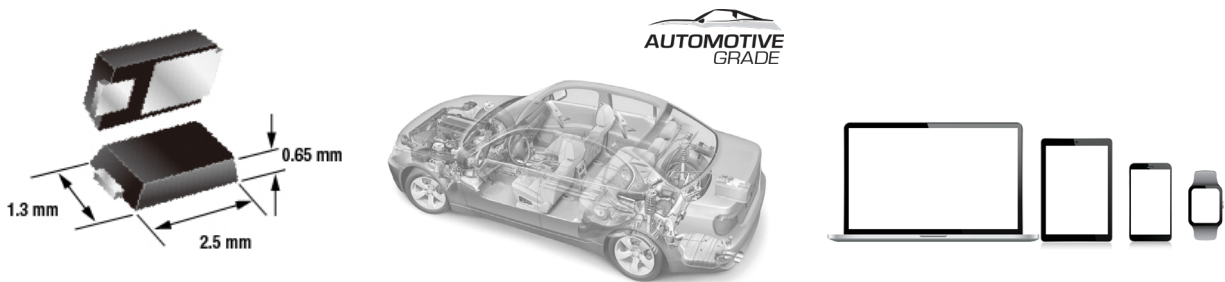




New Automotive Grade 800 V, 1 A Fast Recovery Rectifier in eSMP® Series MicroSMP (DO-219AD) Package Meets Downsizing Requirements

Vishay General Semiconductor introduces a new 1 A fast recovery rectifier in the MicroSMP (DO-219AD) package, providing a smaller and lighter solution to meet downsizing requirements in commercial, industrial, and automotive applications. The MRSE1PK combines a low 0.65 mm height with V_{RRM} of 800 V, t_{rr} of 250 ns, extremely low typical V_F of 1.0 V at 1 A, and a wide operating temperature range up to 175 °C.



Device Specification Table

$I_{F(AV)}$ (A)	Part Number	Package	$V_{(BR)}$ (V)	V_F (typ.) at I_F		I_R at V_{RRM} (μ A)	I_{FSM} (A)	t_{rr} (max.) (ns)	T_J (max.) (°C)	AEC-Q101 Qualified
				(V)	(A)					
1.0	MRSE1PK-M3	MicroSMP (DO-219AD)	800	1.00	1.0	1	15	250	175	No
1.0	MRSE1PKHM3	MicroSMP (DO-219AD)	800	1.00	1.0	1	15	250	175	Yes

Features

- Low profile MicroSMP (DO-219AD) package with a typical height of 0.65 mm
- Planar oxide silicon technology for V_{RRM} of 800 V
- Current rating up to 1 A
- t_{rr} of 250 ns delivers fast switching for high efficiency
- Low forward voltage drop and leakage current
- Wide operating temperature range from -55 °C to 175 °C



The DNA of tech.



Applications

- General purpose rectification
- Power supply snubber circuits
- Inverters and converters
- Freewheeling diodes

Samples

- Available at the Vishay Sample Service Center

For further information, please contact our regional marketing offices.

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