



New AEC-Q101 Qualified TVS in MicroSMP (DO-219AD) Package for Automotive Applications

Vishay has expanded its portfolio of TVS protection diodes in the compact MicroSMP (DO-219AD) package for automotive applications. The five new part numbers listed below meet stringent Vishay Automotive Grade standards, and are available in AEC-Q101 qualified versions.

Unidirectional



Device Specification Table

No	Device Name	Package	Type	V _{RWM} (V)	Maximum V _C AT I _{PPM}			
					10/1000 μs		8/20 μs	
					V _C (V)	I _{PPM} (A)	V _C (V)	I _{PPM} (A)
1	MSMP6.0AHM3/H	MicroSMP (DO-219AD)	AEC-Q101	6.0	10.3	14.6	13.7	73.0
2	MSMP6.5AHM3/H			6.5	11.2	13.4	14.5	69.0
3	MSMP7.0AHM3/H			7.0	12.0	12.5	15.7	63.7
4	MSMP7.5AHM3/H			7.5	12.9	11.6	17.0	58.8
5	MSMP8.0AHM3/H			8.0	13.6	11.0	18.2	54.9

Features

- Very low profile - typical height of 0.65 mm
- Ideal for automated placement
- Oxide planar chip junction
- Unidirectional polarity only
- Peak pulse power: 150 W (10/1000 μs)
- ESD capability: 15 kV (air), 8 kV (contact)
- Meets MSL level 1, per J-STD-020C, LF maximum peak of 260 °C
- AEC-Q101 qualified
 - Automotive ordering code: base P/NHM3



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Applications

Protection of sensitive ICs, MOSFETs, and signal lines of sensor units against voltage transients induced by inductive load switching and lighting

Samples

Available at the Vishay Sample Service Center (VSSC)

Contact Information

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