



DIODES

VTVS3V3ASMF to VTVS63GSMF

TRANSZORB® TVS Protection Diodes Feature 2 % Breakdown Voltage Tolerance and Provide High Surge Capability of 400 W at 10/1000 μ s



KEY BENEFITS

- Breakdown voltage tolerance down to 2 %
- SMF package with low profile of 1 mm
- High surge capability of 400 W at 10/1000 μ s
- Peak pulse current from 3.54 A to 42.95 A
- AEC-Q101 qualified
- RoHS-compliant and halogen-free
- Vishay Automotive Grade

APPLICATIONS

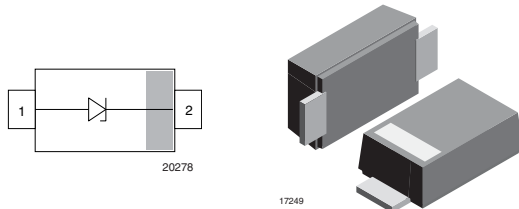
- Line transient voltage protection in space-constrained electronics (such as laptops, notebooks, tablets, smartphones, and external hard drives)

RESOURCES

- Datasheet: VTVS3V3ASMF to VTVS63GSMF - www.vishay.com/ppg?85891
- For technical questions contact ESDProtection@vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

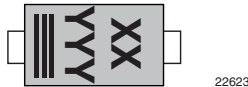


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PRIMARY CHARACTERISTICS	
V _{BR}	6.4 V to 78.2 V
V _{WM}	3.3 V to 63 V
P _{PPM}	400 W
T _J max.	175 °C
Polarity	Uni-directional
Package	SMF (DO-219AB)

MARKING (example only)



Bar = cathode marking
 YYY = type code (see table below)
 XX = date code

DESIGN SUPPORT TOOLS click logo to get started



FEATURES

- 400 W peak pulse power capability with a 10/1000 μs waveform
- Tolerance of the avalanche breakdown voltage
 ± 5 % VTVSxxxA...
 ± 2 % VTVSxxxG...
- Low-profile package
- Wave and reflow solderable
- ESD-protection acc. IEC 61000-4-2
 ± 30 kV contact discharge
 ± 30 kV air discharge
- Excellent clamping capability
- “Low-Noise” technology - very fast response time
- AEC-Q101 qualified available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



ORDERING INFORMATION							
PART NUMBER (EXAMPLE)	TOLERANCE V _{BR}	ENVIRONMENTAL AND QUALITY CODE			PACKAGING CODE		ORDERING CODE (EXAMPLE)
		AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS HALOGEN-FREE	TIN PLATED	3K PER 7" REEL (8 mm TAPE), 30K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE), 50K/BOX = MOQ	
VTVS5V0ASMf-	± 5 %		M	3	-08		VTVS5V0ASMf-M3-08
VTVS5V0ASMf-	± 5 %	H	M	3	-08		VTVS5V0ASMf-HM3-08
VTVS5V0ASMf-	± 5 %		M	3		-18	VTVS5V0ASMf-M3-18
VTVS5V0ASMf-	± 5 %	H	M	3		-18	VTVS5V0ASMf-HM3-18
VTVS5V0GSMf-	± 2 %		M	3	-08		VTVS5V0GSMf-M3-08
VTVS5V0GSMf-	± 2 %	H	M	3	-08		VTVS5V0GSMf-HM3-08
VTVS5V0GSMf-	± 2 %		M	3		-18	VTVS5V0GSMf-M3-18
VTVS5V0GSMf-	± 2 %	H	M	3		-18	VTVS5V0GSMf-HM3-18

Revision: 07-Feb-2018