



Introducing 3.3 V Working Range VTVS Series TVS Diode in Low Profile SMF Package With 2 % Breakdown Voltage Tolerance and AEC-Q101 Qualification

Vishay's VTVS Series surface-mount transient voltage suppressor (TVS) protection diodes are the industry's first to feature a 2 % breakdown voltage tolerance. Offered in the low profile SMF (DO-219AB) package, the devices provide high surge capability of 400 W at 10/1000 μ s for portable electronics.

With their low 1 mm profile, low noise technology, and very fast response times, the devices are ideal for line transient voltage protection in space-constrained electronics, such as laptops, notebooks, tablets, smartphones, and external hard drives.

Now with the addition of 3.3 V, the working voltages for the VTVS series cover from 3.3 V to 63 V, with breakdown voltage tolerances of 2 % and 5 % available. The TVS devices offer a peak pulse current from 2.9 A to 20.3 A, excellent clamping capability from 14.8 V to 103.5 V, low incremental surge resistance, and operating temperatures from -55 °C to +175 °C.

Below table is the ordering information for 3.3 V.

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	TIN PLATED	3K PER 7" REEL (8 mm TAPE), 30K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE), 50K/BOX = MOQ	
			HALOGEN-FREE				
VTVS3V3ASMF-	± 5 %		M	3	-08		VTVS3V3ASMF-M3-08
VTVS3V3ASMF-	± 5 %	H	M	3	-08		VTVS3V3ASMF-HM3-08
VTVS3V3ASMF-	± 5 %		M	3		-18	VTVS3V3ASMF-M3-18
VTVS3V3ASMF-	± 5 %	H	M	3		-18	VTVS3V3ASMF-HM3-18
VTVS3V3GSMF-	± 2 %		M	3	-08		VTVS3V3GSMF-M3-08
VTVS3V3GSMF-	± 2 %	H	M	3	-08		VTVS3V3GSMF-HM3-08
VTVS3V3GSMF-	± 2 %		M	3		-18	VTVS3V3GSMF-M3-18
VTVS3V3GSMF-	± 2 %	H	M	3		-18	VTVS3V3GSMF-HM3-18

Samples:

Available at Vishay Sample Service Center

Datasheet: <http://www.vishay.com/doc?85891>

**For further information:**

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