



New TRANSZORB® Bidirectional TVS Offer High Surge Capability to 3 kW, Leakage Current Down to 1 μ A, High Temp Operation to +175 °C, and Stable Breakdown Voltage From 11.1 V to 133 V in SMC (DO-214AB) Package

Product Benefits:

- Offered in SMC (DO-214AB) package
- High surge capability of 3 kW at 10/1000 μ s
 - Meets the specifications of ISO 16750-2 Pulse b
- Low leakage current down to 1 μ A from 22 V to 120 V
- High temperature operation to +175 °C
- AEC-Q101 qualified
- Extremely stable breakdown voltage from 11.1 V to 133 V across their entire operating temperature range
- 33 TVS part numbers with stand-off voltages from 10 V to 120 V
- Very fast response times
- Low incremental surge resistance
- Maximum clamping voltage from 17.0 V to 193 V at 10/1000 μ s
- RoHS-compliant and halogen-free
- Moisture sensitivity level (MSL) of 1 in accordance with J-STD-020, LF maximum peak of 260 °C



Market Applications:

- Automotive load dump protection and signal line protection in industrial and telecom systems

The News:

Vishay Intertechnology introduces a new series of surface-mount TRANSZORB® bidirectional transient voltage suppressors (TVS) in the SMC (DO-214AB) package for automotive, industrial, and telecom applications.

- Suitable for high reliability applications
- Designed to protect sensitive electronic equipment against voltage transients induced by inductive load switching and lightning
- Excellent clamping capability



The Key Specifications:

Part #	Breakdown voltage (V)		Stand-off voltage (V)	Maximum reverse leakage at V_{WM} I_D (μA)	Maximum clamping voltage V_C (V) at I_{PPM} (10/1000 μs)	
	Min.	Max.			(V)	(A)
SMC3K10CAHM3_A	11.1	12.3	10	10.0	17.0	176
SMC3K12CAHM3_A	13.3	14.7	12	5.0	19.9	151
SMC3K13CAHM3_A	14.4	15.9	13	2.0	21.5	140
SMC3K14CAHM3_A	15.6	17.2	14	2.0	23.2	129
SMC3K15CAHM3_A	16.7	18.5	15	2.0	24.4	123
SMC3K16CAHM3_A	17.8	19.7	16	2.0	26.0	115
SMC3K17CAHM3_A	18.9	20.9	17	2.0	27.6	109
SMC3K18CAHM3_A	20.0	22.1	18	2.0	29.2	103
SMC3K20CAHM3_A	22.2	24.5	20	2.0	32.4	92.6
SMC3K22CAHM3_A	24.4	26.9	22	1.0	35.5	84.5
SMC3K24CAHM3_A	26.7	29.5	24	1.0	38.9	77.1
SMC3K26CAHM3_A	28.9	31.9	26	1.0	42.1	71.3
SMC3K28CAHM3_A	31.1	34.4	28	1.0	45.4	66.1
SMC3K30CAHM3_A	33.3	36.8	30	1.0	48.4	62.0
SMC3K33CAHM3_A	36.7	40.6	33	1.0	53.3	56.3
SMC3K36CAHM3_A	40.0	44.2	36	1.0	58.1	51.6
SMC3K40CAHM3_A	44.4	49.1	40	1.0	64.5	46.5
SMC3K43CAHM3_A	47.8	52.8	43	1.0	69.4	43.2
SMC3K45CAHM3_A	50.0	55.3	45	1.0	72.7	41.3
SMC3K48CAHM3_A	53.3	58.9	48	1.0	77.4	38.8
SMC3K51CAHM3_A	56.7	62.7	51	1.0	82.4	36.4
SMC3K54CAHM3_A	60.0	66.3	54	1.0	87.1	34.4
SMC3K58CAHM3_A	64.4	71.2	58	1.0	93.6	32.1
SMC3K60CAHM3_A	66.7	73.7	60	1.0	96.8	31.0
SMC3K64CAHM3_A	71.1	78.6	64	1.0	103	29.1
SMC3K70CAHM3_A	77.8	86.0	70	1.0	113	26.5
SMC3K75CAHM3_A	83.3	92.1	75	1.0	121	24.8
SMC3K78CAHM3_A	86.7	95.8	78	1.0	126	23.8
SMC3K85CAHM3_A	94.4	104	85	1.0	137	21.9
SMC3K90CAHM3_A	100	111	90	1.0	146	20.5
SMC3K100CAHM3_A	111	123	100	1.0	162	18.5
SMC3K110CAHM3_A	122	135	110	1.0	177	16.9
SMC3K120CAHM3_A	133	147	120	1.0	193	15.5



NEW PRODUCT INFORMATION



Product Group: Vishay General Semiconductor, Diodes / June 2022

Availability:

Samples and production quantities of the new SMC3KxxxCAHM3_A series are available now, with lead times of 12 weeks for large orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?98241> (SMC3K10CAHM3_A THRU SMC3K120CAHM3_A)

Contact Information:

THE AMERICAS

Diodes-Americas@vishay.com

EUROPE

Diodes-Europe@vishay.com

ASIA/PACIFIC

Diodes-Asia@vishay.com