



1SMB5.0A
THRU
1SMB170A



UNI-DIRECTIONAL
GLASS PASSIVATED JUNCTION
TRANSIENT VOLTAGE SUPPRESSOR
600 WATTS, 5.0 THRU 170 VOLTS



SMB CASE

CentralTM
Semiconductor Corp.

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1SMB5.0A Series types are Surface Mount Uni-Directional Glass Passivated Junction Transient Voltage Suppressors designed to protect voltage sensitive components from high voltage transients. **THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

Note: For Bi-directional devices, please refer to the 1SMB5.0CA Series data sheet.

Specified by
STAND-OFF VOLTAGE

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Peak Power Dissipation
Peak Forward Surge Current (JEDEC Method)
Operating and Storage
Junction Temperature

SYMBOL

P_{DM} 600
 I_{FSM} 100
 T_J, T_{stg} -65 to +150

UNITS

W
A
 $^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

TYPE NO.	REVERSE STAND-OFF VOLTAGE	BREAKDOWN VOLTAGE			MAXIMUM REVERSE LEAKAGE @ V_{RWM}	MAXIMUM CLAMPING VOLTAGE @ I_{PPM}	MAXIMUM PEAK PULSE CURRENT	MARKING CODE			
		V_{BR}		$@ I_T$					I_R	V_C	I_{PPM}
		VOLTS									
		V_{RWM}	MIN	MAX					mA		
1SMB5.0A	5.0	6.40	7.25	10	800	9.2	65.2	CKE			
1SMB6.0A	6.0	6.67	7.67	10	800	10.3	58.3	CKG			
1SMB6.5A	6.5	7.22	8.30	10	500	11.2	53.6	CKK			
1SMB7.0A	7.0	7.78	8.95	10	200	12.0	50.0	CKM			
1SMB7.5A	7.5	8.33	9.58	1.0	100	12.9	46.5	CKP			
1SMB8.0A	8.0	8.89	10.23	1.0	50	13.6	44.1	CKR			
1SMB8.5A	8.5	9.44	10.82	1.0	10	14.4	41.7	CKT			
1SMB9.0A	9.0	10.0	11.5	1.0	5.0	15.4	39.0	CKV			
1SMB10A	10	11.1	12.8	1.0	5.0	17.0	35.3	CKX			
1SMB11A	11	12.2	14.0	1.0	5.0	18.2	33.0	CKZ			
1SMB12A	12	13.3	15.3	1.0	5.0	19.9	30.2	CLE			
1SMB13A	13	14.4	16.5	1.0	5.0	21.5	27.9	CLG			

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		V_{BR}		$@I_T$				
		VOLTS						
		V_{RWM}	MIN	MAX				
VOLTS				μA	VOLTS	A		
1SMB14A	14	15.6	17.9	1.0	5.0	23.2	25.8	CLK
1SMB15A	15	16.7	19.2	1.0	5.0	24.4	24.0	CLM
1SMB16A	16	17.8	20.5	1.0	5.0	26.0	23.1	CLP
1SMB17A	17	18.9	21.7	1.0	5.0	27.6	21.7	CLR
1SMB18A	18	20.0	23.3	1.0	5.0	29.2	20.5	CLT
1SMB20A	20	22.2	25.5	1.0	5.0	32.4	18.5	CLV
1SMB22A	22	24.4	28.0	1.0	5.0	35.5	16.9	CLX
1SMB24A	24	26.7	30.7	1.0	5.0	38.9	15.4	CLZ
1SMB26A	26	28.9	33.2	1.0	5.0	42.1	14.2	CME
1SMB28A	28	31.1	35.8	1.0	5.0	45.4	13.2	CMG
1SMB30A	30	33.3	38.3	1.0	5.0	48.4	12.4	CMK
1SMB33A	33	36.7	42.2	1.0	5.0	53.3	11.3	CMM
1SMB36A	36	40.0	46.0	1.0	5.0	58.1	10.3	CMP
1SMB40A	40	44.4	51.1	1.0	5.0	64.5	9.3	CMR
1SMB43A	43	47.8	54.9	1.0	5.0	69.4	8.6	CMT
1SMB45A	45	50.0	57.5	1.0	5.0	72.7	8.3	CMV
1SMB48A	48	53.3	61.3	1.0	5.0	77.4	7.7	CMX
1SMB51A	51	56.7	65.2	1.0	5.0	82.4	7.3	CMZ
1SMB54A	54	60.0	69.0	1.0	5.0	87.1	6.9	CNE
1SMB58A	58	64.4	74.1	1.0	5.0	93.6	6.4	CNG
1SMB60A	60	66.7	76.7	1.0	5.0	96.8	6.2	CNK
1SMB64A	64	71.1	81.8	1.0	5.0	103	5.8	CNM
1SMB70A	70	77.8	89.5	1.0	5.0	113	5.3	CNP
1SMB75A	75	83.3	95.8	1.0	5.0	121	4.9	CNR
1SMB78A	78	86.7	99.7	1.0	5.0	126	4.7	CNT
1SMB85A	85	94.4	108.2	1.0	5.0	137	4.4	CNV
1SMB90A	90	100.0	115.5	1.0	5.0	146	4.1	CNX
1SMB100A	100	111.0	128.0	1.0	5.0	162	3.7	CNZ
1SMB110A	110	122.0	140.5	1.0	5.0	177	3.4	CPE
1SMB120A	120	133.0	153.0	1.0	5.0	193	3.1	CPG
1SMB130A	130	144.0	165.5	1.0	5.0	209	2.9	CPK
1SMB150A	150	167.0	192.5	1.0	5.0	243	2.5	CPM
1SMB160A	160	178.0	205.0	1.0	5.0	259	2.3	CPP
1SMB170A	170	189.0	217.5	1.0	5.0	275	2.2	CPR

All Dimensions in Inches (mm).

