

3SMC5.0A
THRU
3SMC170A

**SURFACE MOUNT UNI-DIRECTIONAL
GLASS PASSIVATED JUNCTION
TRANSIENT VOLTAGE SUPPRESSOR
3000 WATTS, 5.0 THRU 170 VOLTS**



SMC CASE

Specified by

STAND-OFF VOLTAGE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 3SMC5.0A 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 3SMC5.0CA Series data sheet.

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

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

SYMBOL		UNITS
P_{DM}	3000	W
I_{FSM}	200	A
T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

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}		$@ I_T$				
		VOLTS						
		V_{RWM} VOLTS	MIN	MAX				
3SMC5.0A	5.0	6.40	7.25	10.0	1000	9.2	326.0	CHDE
3SMC6.0A	6.0	6.67	25	14.4	1000	10.3	291.3	CHDG
3SMC6.5A	6.5	7.22	10	15.4	500	11.2	267.9	CHDK
3SMC7.0A	7.0	7.78	5.0	17.0	200	12.0	250.0	CHDM
3SMC7.5A	7.5	8.33	5.0	18.2	100	12.9	232.6	CHDP
3SMC8.0A	8.0	8.89	10.23	1.0	50	13.6	220.6	CHDR
3SMC8.5A	8.5	9.44	10.82	1.0	25	14.4	208.4	CHDT
3SMC9.0A	9.0	10.0	11.5	1.0	10	15.4	194.8	CHDV
3SMC10A	10.0	11.1	12.8	1.0	5.0	17.0	176.4	CHDX
3SMC11A	11.0	12.2	14.0	1.0	5.0	18.2	184.8	CHDZ
3SMC12A	12.0	13.3	15.3	1.0	5.0	19.9	150.6	CHEE
3SMC13A	13.0	14.4	16.5	1.0	5.0	21.5	139.4	CHEG

R1 (14-Sept 2000)

ELECTRICAL CHARACTERISTICS: Continued

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				
	V_{RWM} VOLTS	VOLTS			mA	I_R μA	V_C VOLTS	
		MIN	MAX					
3SMC14A	14	15.6	17.9	1.0	5.0	23.2	129.4	CHEK
3SMC15A	15	16.7	19.2	1.0	5.0	24.4	123.0	CHEM
3SMC16A	16	17.8	20.5	1.0	5.0	26.0	115.4	CHEP
3SMC17A	17	18.9	21.7	1.0	5.0	27.6	106.6	CHER
3SMC18A	18	20.0	23.3	1.0	5.0	29.2	102.8	CHET
3SMC20A	20	22.2	25.5	1.0	5.0	32.4	92.6	CHEV
3SMC22A	22	24.4	28.0	1.0	5.0	35.5	84.4	CHEX
3SMC24A	24	26.7	30.7	1.0	5.0	38.9	77.2	CHEZ
3SMC26A	26	28.9	33.2	1.0	5.0	42.1	71.2	CHFE
3SMC28A	28	31.1	35.8	1.0	5.0	45.4	66.0	CHFG
3SMC30A	30	33.3	38.3	1.0	5.0	48.4	62.0	CHFK
3SMC33A	33	36.7	42.2	1.0	5.0	53.3	56.2	CHFM
3SMC36A	36	40.0	46.0	1.0	5.0	58.1	51.6	CHFP
3SMC40A	40	44.4	51.1	1.0	5.0	64.5	46.4	CHFR
3SMC43A	43	47.8	54.9	1.0	5.0	69.4	43.2	CHFT
3SMC45A	45	50.0	57.5	1.0	5.0	72.7	41.2	CHFV
3SMC48A	48	53.3	61.3	1.0	5.0	77.4	38.8	CHFX
3SMC51A	51	56.7	65.2	1.0	5.0	82.4	36.4	CHFZ
3SMC54A	54	60.0	69.0	1.0	5.0	87.1	34.4	CHGE
3SMC58A	58	64.4	74.1	1.0	5.0	93.6	32.0	CHGG
3SMC60A	60	66.7	76.7	1.0	5.0	96.8	31.0	CHGK
3SMC64A	64	71.1	81.8	1.0	5.0	103	29.2	CHGM
3SMC70A	70	77.8	89.5	1.0	5.0	113	26.6	CHGP
3SMC75A	75	83.3	95.8	1.0	5.0	121	24.8	CHGR
3SMC78A	78	86.7	99.7	1.0	5.0	126	22.8	CHGT
3SMC85A	85	94.4	108.2	1.0	5.0	137	20.8	CHGV
3SMC90A	90	100	115.5	1.0	5.0	146	20.6	CHGX
3SMC100A	100	111	128.0	1.0	5.0	162	18.6	CHGZ
3SMC110A	110	122	140.5	1.0	5.0	177	16.8	CHHE
3SMC120A	120	133	153.0	1.0	5.0	193	15.6	CHHG
3SMC130A	130	144	165.5	1.0	5.0	209	14.4	CHHK
3SMC150A	150	167	192.5	1.0	5.0	243	12.4	CHHM
3SMC160A	160	178	205.0	1.0	5.0	259	11.6	CHHP
3SMC170A	170	189	217.5	1.0	5.0	275	11.0	CHHR