



**P6SMB6.8A  
THRU  
P6SMB200A**



**UNI-DIRECTIONAL  
GLASS PASSIVATED JUNCTION  
TRANSIENT VOLTAGE SUPPRESSOR  
600 WATTS, 6.8 THRU 200 VOLTS**



**SMB CASE**

*Specified by*

BREAKDOWN  
VOLTAGE

**MAXIMUM RATINGS (T<sub>A</sub>=25°C )**

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

**SYMBOL**

**UNITS**

P <sub>PM</sub>	600	W
I <sub>FSM</sub>	100	A
T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C )**

TYPE NO.	BREAKDOWN VOLTAGE				WORKING PEAK REVERSE VOLTAGE	MAXIMUM REVERSE LEAKAGE @ V <sub>RWM</sub>	MAXIMUM REVERSE SURGE CURRENT	MAXIMUM REVERSE VOLTAGE @ I <sub>RSM</sub>	MAXIMUM TEMP. COEFFICIENT of V <sub>BR</sub>	MARKING CODE
	V <sub>BR</sub>			@ I <sub>T</sub>						
	VOLTS									
	MIN	NOM	MAX							
P6SMB6.8A	6.45	6.8	7.14	10	5.8	1000	57	10.5	0.057	C6V8A
P6SMB7.5A	7.13	7.5	7.88	10	6.4	500	53	11.3	0.061	C7V5A
P6SMB8.2A	7.79	8.2	8.61	10	7.02	200	50	12.1	0.065	C8V2A
P6SMB9.1A	8.65	9.1	9.55	1	7.78	50	45	13.4	0.068	C9V1A
P6SMB10A	9.5	10	10.5	1	8.55	10	41	14.5	0.073	C10A
P6SMB11A	10.5	11	11.6	1	9.4	5	38	15.6	0.075	C11A
P6SMB12A	11.4	12	12.6	1	10.2	5	36	16.7	0.078	C12A
P6SMB13A	12.4	13	13.7	1	11.1	5	33	18.2	0.081	C13A
P6SMB15A	14.3	15	15.8	1	12.8	5	28	21.2	0.084	C15A
P6SMB16A	15.2	16	16.8	1	13.6	5	27	22.5	0.086	C16A
P6SMB18A	17.1	18	18.9	1	15.3	5	24	25.2	0.088	C18A
P6SMB20A	19.0	20	21.0	1	17.1	5	22	27.7	0.090	C20A

**Central<sup>TM</sup>  
Semiconductor Corp.**

**DESCRIPTION**

The CENTRAL SEMICONDUCTOR P6SMB6.8A 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 P6SMB6.8CA Series data sheet.

TYPE NO.	BREAKDOWN VOLTAGE				@ I <sub>T</sub>	WORKING PEAK REVERSE VOLTAGE V <sub>RWM</sub>	MAXIMUM REVERSE LEAKAGE @ V <sub>RWM</sub> I <sub>R</sub>	MAXIMUM REVERSE SURGE CURRENT I <sub>RSM</sub>	MAXIMUM REVERSE VOLTAGE @ I <sub>RSM</sub> V <sub>RSM</sub>	MAXIMUM TEMP. COEFFICIENT of V <sub>BR</sub> %/°C	MARKING CODE
	V <sub>BR</sub>			mA							
	VOLTS										
	MIN	NOM	MAX								
P6SMB22A	20.9	22	23.1	1	18.8	5	20	30.6	0.092	C22A	
P6SMB24A	22.8	24	25.2	1	20.5	5	18	33.2	0.094	C24A	
P6SMB27A	25.7	27	28.4	1	23.1	5	16	37.5	0.096	C27A	
P6SMB30A	28.5	30	31.5	1	25.6	5	14.4	41.4	0.097	C30A	
P6SMB33A	31.4	33	34.7	1	28.2	5	13.2	45.7	0.098	C33A	
P6SMB36A	34.2	36	37.8	1	30.8	5	12.0	49.9	0.099	C36A	
P6SMB39A	37.1	39	41.0	1	33.3	5	11.2	53.9	0.100	C39A	
P6SMB43A	40.9	43	45.2	1	36.8	5	10.1	59.3	0.101	C43A	
P6SMB47A	44.7	47	49.4	1	40.2	5	9.3	64.8	0.101	C47A	
P6SMB51A	48.5	51	53.6	1	43.6	5	8.6	70.1	0.102	C51A	
P6SMB56A	53.2	56	58.8	1	47.8	5	7.8	77	0.103	C56A	
P6SMB62A	58.9	62	65.1	1	53.0	5	7.1	85	0.104	C62A	
P6SMB68A	64.6	68	71.4	1	58.1	5	6.5	92	0.104	C68A	
P6SMB75A	71.3	75	78.8	1	64.1	5	5.8	103	0.105	C75A	
P6SMB82A	77.9	82	86.1	1	70.1	5	5.3	113	0.105	C82A	
P6SMB91A	86.5	91	95.5	1	77.8	5	4.8	125	0.106	C91A	
P6SMB100A	95.0	100	105	1	85.5	5	4.4	137	0.106	C100A	
P6SMB110A	104.5	110	115.5	1	94.0	5	4.0	152	0.107	C110A	
P6SMB120A	114	120	126	1	102	5	3.6	165	0.107	C120A	
P6SMB130A	123.5	130	136.5	1	111	5	3.3	179	0.107	C130A	
P6SMB150A	142.5	150	157.5	1	128	5	2.9	207	0.108	C150A	
P6SMB160A	152	160	168	1	136	5	2.7	219	0.108	C160A	
P6SMB170A	161.5	170	178.5	1	145	5	2.6	234	0.108	C170A	
P6SMB180A	171	180	189	1	154	5	2.4	246	0.108	C180A	
P6SMB200A	190	200	210	1	171	5	2.2	274	0.108	C200A	

All dimensions in inches (mm).

TOP VIEW

