



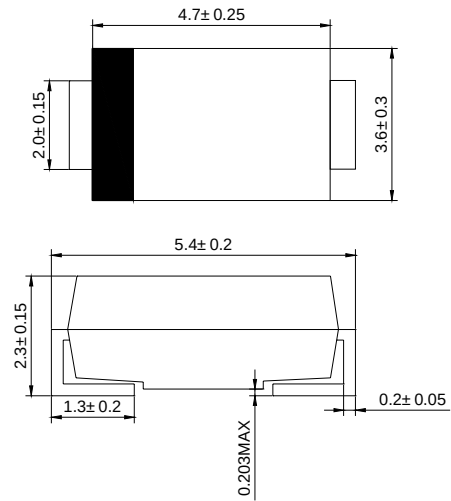
SMB

Features

- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Typical I_D less than 1.0μA above 10V
- Plastic package has Underwriters Laboratory
Fammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals
- In compliance with EU RoHS 2002/95/EC directives

Mechanical Data

- Case: JEDEC DO-214AA ,Molded plastic over passivated junction
- Terminals: Solder plated,solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard Packaging:12mm tape (EIA-481)
- Weight: 0.003 ounce, 0.093 gram



Dimensions in millimeters

DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000uS waveform (Notes 1,2, Fig.1)	P_{PPM}	600	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Notes 2,3)	I_{FSM}	100	Amps
Peak Pulse Current on 10/1000us waveform(Note 1)Fig.3	I_{PPM}	see Table 1	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^\circ\text{C}$ per Fig. 2.
2. Mounted on 5.0mm^2 (0.13mm thick) land areas.
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

Part Number		V _{RWM}	V _{BR} @ I _T			I _R @ V _{RWM}		V _C @ I _{PP}		Marking Code	
			Min.	Max.	I _T	UNI-	BI-				
UNI	BI	V	V	V	mA	μA	μA	V	A	UNI	BI
600W Transient Voltage Suppressor											
P6SMB6.8	P6SMB6.8C	5.5	6.12	7.48	10	1000	2000	10.8	56	EZA	DZA
P6SMB6.8A	P6SMB6.8CA	5.8	6.45	7.14	10	1000	2000	10.5	57	EZB	DZB
P6SMB7.5	P6SMB7.5C	6.05	6.75	8.25	10	500	1000	11.7	51	EZC	DZC
P6SMB7.5A	P6SMB7.5CA	6.4	7.13	7.88	10	500	1000	11.3	53	EZD	DZD
P6SMB8.2	P6SMB8.2C	6.63	7.38	9.02	10	200	400	12.5	48	EZE	DZE
P6SMB8.2A	P6SMB8.2CA	7.02	7.79	8.61	10	200	400	12.1	50	EZF	DZF
P6SMB9.1	P6SMB9.1C	7.37	8.19	10	1	50	100	13.8	44	EZG	DZG
P6SMB9.1A	P6SMB9.1CA	7.78	8.65	9.5	1	50	100	13.4	45	EZH	DZH
P6SMB10	P6SMB10C	8.1	9	11	1	10	20	15	40	EZJ	DZJ
P6SMB10A	P6SMB10CA	8.55	9.5	10.5	1	10	20	14.5	41	EZK	DZK
P6SMB11	P6SMB11C	8.92	9.9	12.1	1	5	10	16.2	37	EZL	DZL
P6SMB11A	P6SMB11CA	9.4	10.5	11.6	1	5	10	15.6	38	EZM	DZM
P6SMB12	P6SMB12C	9.72	10.8	13.2	1	5	5	17.3	35	EZN	DZN
P6SMB12A	P6SMB12CA	10.2	11.4	12.6	1	5	5	16.7	36	EZP	DZP
P6SMB13	P6SMB13C	10.5	11.7	14.3	1	5	5	19	32	EZQ	DZQ
P6SMB13A	P6SMB13CA	11.1	12.4	13.7	1	5	5	18.2	33	EZR	DZR
P6SMB15	P6SMB15C	12.1	13.5	16.5	1	5	5	22	27	EZS	DZS
P6SMB15A	P6SMB15CA	12.8	14.3	15.8	1	5	5	21.2	28	EZT	DZT
P6SMB16	P6SMB16C	12.9	14.4	17.6	1	5	5	23.5	26	EZU	DZU
P6SMB16A	P6SMB16CA	13.6	15.2	16.8	1	5	5	22.5	27	EZV	DZV
P6SMB18	P6SMB18C	14.5	16.2	19.8	1	5	5	26.5	23	EZW	DZW
P6SMB18A	P6SMB18CA	15.3	17.1	18.9	1	5	5	25.2	24	EZX	DZX
P6SMB20	P6SMB20C	16.2	18	22	1	5	5	29.1	21	EZY	DZY
P6SMB20A	P6SMB20CA	17.1	19	21	1	5	5	27.7	22	EZZ	DZZ
P6SMB22	P6SMB22C	17.8	19.8	24.2	1	5	5	31.9	19	EXA	DXA
P6SMB22A	P6SMB22CA	18.8	20.9	23.1	1	5	5	30.6	20	EXB	DXB
P6SMB24	P6SMB24C	19.4	21.6	26.4	1	5	5	34.7	17	EXC	DXC
P6SMB24A	P6SMB24CA	20.5	22.8	25.2	1	5	5	33.2	18	EXD	DXD
P6SMB27	P6SMB27C	21.8	24.3	29.7	1	5	5	39.1	15	EXE	DXE
P6SMB27A	P6SMB27CA	23.1	25.7	28.4	1	5	5	37.5	16	EXF	DXF
P6SMB30	P6SMB30C	24.3	27	33	1	5	5	43.5	14	EXG	DXG
P6SMB30A	P6SMB30CA	25.6	28.5	31.5	1	5	5	41.4	14.4	EXH	DXH
P6SMB33	P6SMB33C	26.8	29.7	36.3	1	5	5	47.7	12.6	EXJ	DXJ
P6SMB33A	P6SMB33CA	28.2	31.4	34.7	1	5	5	45.7	13.2	EXK	DXK
P6SMB36	P6SMB36C	29.1	32.4	39.6	1	5	5	52	11.6	EXL	DXL
P6SMB36A	P6SMB36CA	30.8	34.2	37.8	1	5	5	49.9	12	EXM	DXM
P6SMB39	P6SMB39C	31.6	35.1	42.9	1	5	5	56.4	10.6	EXN	DXN
P6SMB39A	P6SMB39CA	33.3	37.1	41	1	5	5	53.9	11.2	EXP	DXP
P6SMB43	P6SMB43C	34.8	38.7	47.3	1	5	5	61.9	9.6	EXQ	DXQ



P6SMB Series

Surface Mount Transient Voltage Suppressor

Part Number		V _{RWM}	V _{BR} @ I _T			I _R @ V _{RWM}		V _c @ I _{PP}		Marking Code	
			Min.	Max.	I _T	UNI-	BI-				
UNI	BI	V	V	V	mA	μA	μA	V	A	UNI	BI
600W Transient Voltage Suppressor											
P6SMB43A	P6SMB43CA	36.8	40.9	45.2	1	5	5	59.3	10.1	EXR	DXR
P6SMB47	P6SMB47C	38.1	42.3	51.7	1	5	5	67.8	8.9	EXS	DXS
P6SMB47A	P6SMB47CA	40.2	44.7	49.4	1	5	5	64.8	9.3	EXT	DXT
P6SMB51	P6SMB51C	41.3	45.9	56.1	1	5	5	73.5	8.2	EXU	DXU
P6SMB51A	P6SMB51CA	43.6	48.5	53.6	1	5	5	70.1	8.6	EXV	DXV
P6SMB56	P6SMB56C	45.6	50.4	61.6	1	5	5	80.5	7.4	EXW	DXW
P6SMB56A	P6SMB56CA	47.8	53.2	58.8	1	5	5	77	7.8	EXX	DXX
P6SMB62	P6SMB62C	50.2	55.8	68.2	1	5	5	89	6.8	EXY	DXY
P6SMB62A	P6SMB62CA	53	58.9	65.1	1	5	5	85	7.1	EXZ	DXZ
P6SMB68	P6SMB68C	55.1	61.2	74.8	1	5	5	98	6.1	EYA	DYA
P6SMB68A	P6SMB68CA	58.1	64.6	71.4	1	5	5	92	6.5	EYB	DYB
P6SMB75	P6SMB75C	60.7	67.5	82.5	1	5	5	108	5.5	EYC	DYC
P6SMB75A	P6SMB75CA	64.1	71.3	78.8	1	5	5	103	5.8	EYD	DYD
P6SMB82	P6SMB82C	66.4	73.8	90.2	1	5	5	118	5.1	EYE	DYE
P6SMB82A	P6SMB82CA	70.1	77.9	86.1	1	5	5	113	5.3	EYF	DYF
P6SMB91	P6SMB91C	73.7	81.9	100	1	5	5	131	4.5	EYG	DYG
P6SMB91A	P6SMB91CA	77.8	86.5	95.5	1	5	5	125	4.8	EYH	DYH
P6SMB100	P6SMB100C	81	90	110	1	5	5	144	4.2	EYJ	DYJ
P6SMB100A	P6SMB100CA	85.5	95	105	1	5	5	137	4.4	EYK	DYK
P6SMB110	P6SMB110C	89.2	99	121	1	5	5	158	3.8	EYL	DYL
P6SMB110A	P6SMB110CA	94	105	116	1	5	5	152	4	EYM	DYM
P6SMB120	P6SMB120C	97.2	108	132	1	5	5	173	3.5	EYN	DYN
P6SMB120A	P6SMB120CA	102	114	126	1	5	5	165	3.6	EYP	DYP
P6SMB130	P6SMB130C	105	117	143	1	5	5	187	3.2	EYQ	DYQ
P6SMB130A	P6SMB130CA	111	124	137	1	5	5	179	3.3	EYR	DYR
P6SMB150	P6SMB150C	121	135	165	1	5	5	215	2.8	EYS	DYS
P6SMB150A	P6SMB150CA	128	143	158	1	5	5	207	2.9	EYT	DYT
P6SMB160	P6SMB160C	130	144	176	1	5	5	230	2.6	EYU	DYU
P6SMB160A	P6SMB160CA	136	152	168	1	5	5	219	2.7	EYV	DYV
P6SMB170	P6SMB170C	138	153	187	1	5	5	244	2.5	EYW	DYW
P6SMB170A	P6SMB170CA	145	162	179	1	5	5	234	2.6	EYX	DYX
P6SMB180	P6SMB180C	146	162	198	1	5	5	258	2.3	EYY	DYY
P6SMB180A	P6SMB180CA	154	171	189	1	5	5	246	2.4	EYZ	DYZ
P6SMB200	P6SMB200C	162	180	220	1	5	5	287	2.1	EWA	DWA
P6SMB200A	P6SMB200CA	171	190	210	1	5	5	274	2.2	EWB	DWB
P6SMB220	P6SMB220C	175	198	242	1	5	5	344	1.8	EWB	DWB
P6SMB220A	P6SMB220CA	185	209	231	1	5	5	328	1.9	EWD	DWD
P6SMB250	P6SMB250C	202	225	275	1	5	5	360	1.7	EWE	DWE
P6SMB250A	P6SMB250CA	214	237	263	1	5	5	344	1.8	EWB	DWB

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