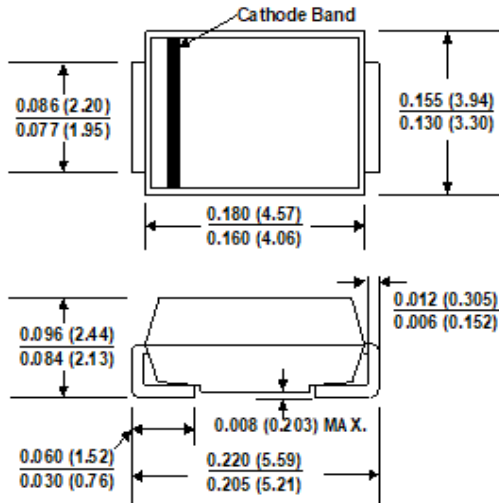


P6KASMB SERIES
SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR
STAND-OFF VOLTAGE - 5.0 TO 220 Volts
600 Watt Peak Pulse Power

DO-214AA (SMB J-Bend)



Dimensions in inches and (millimeters)

FEATURES

- ⊙ Halogen-Free
- ⊙ RoHS compliant
- ⊙ Typical maximum temperature coefficient $\Delta V_{BR}=0.1\% \times V_{BR} @ 25^{\circ}C \times \Delta T$
- ⊙ For surface mounted applications in order to optimize board space
- ⊙ Low profile package
- ⊙ Built-in strain relief
- ⊙ Glass passivated junction
- ⊙ Low inductance
- ⊙ Excellent clamping capability
- ⊙ Repetition Rate(duty cycle):0.01%
- ⊙ Fast response time: typically less than 1.0ps from 0 Volts to BV
- ⊙ AEC-Q101 qualified
- ⊙ High temperature soldering: 260°C/40 seconds at terminals
- ⊙ Plastic package has Underwriters Laboratory Flammability 94V-O
- ⊙ Matte Tin Lead-free plated

MECHANICAL DATA

Case : JEDEC DO214AA. Molded plastic over glass passivated junction

Terminal: Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes positive end (cathode) except Bidirectional

Standard Packaging : 12mm tape(EIA STD RS-481)

Weight : 0.003ounce, 0.093gram

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000µs waveform (Note 1,2 ,FIG.1)	P _{PPM}	Minimum 600	Watts
Peak Pulse Current of on 10/1000µs waveform (Note 1,FIG.3)	I _{PPM}	SEE TABLE 1	Amps
Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load,(JEDEC Method) (Note 2,3)	I _{FSM}	100	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°C per Fig. 2 .
- 2.Mounted on 5.0mm²(0.03mm thick) Copper Pads to each terminal
- 3.8.3ms single half sine-wave , or equivalent square wave, Duty cycle = 4 pulses per minutes maximum.

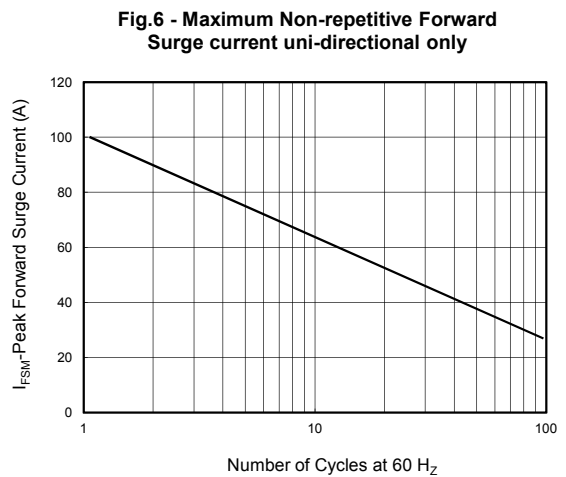
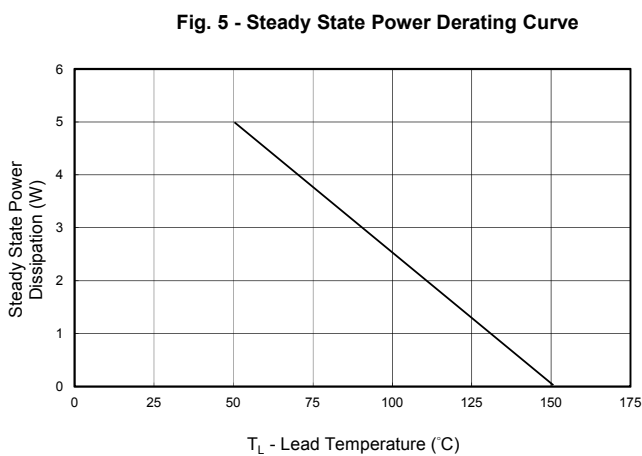
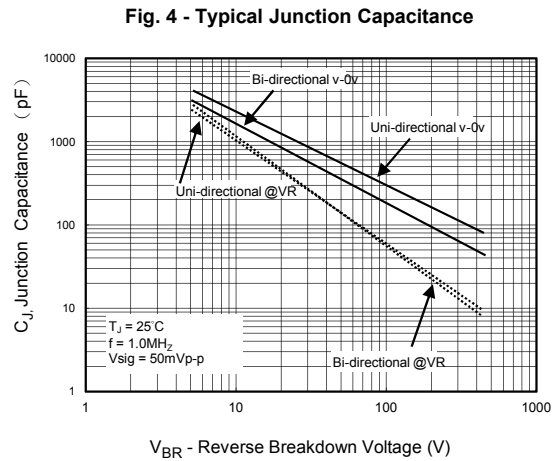
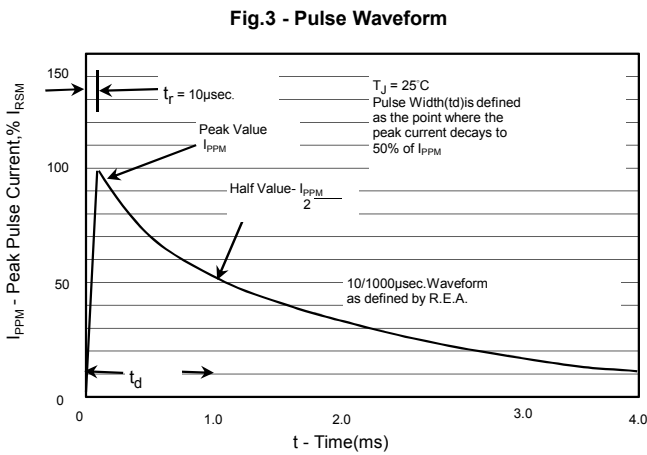
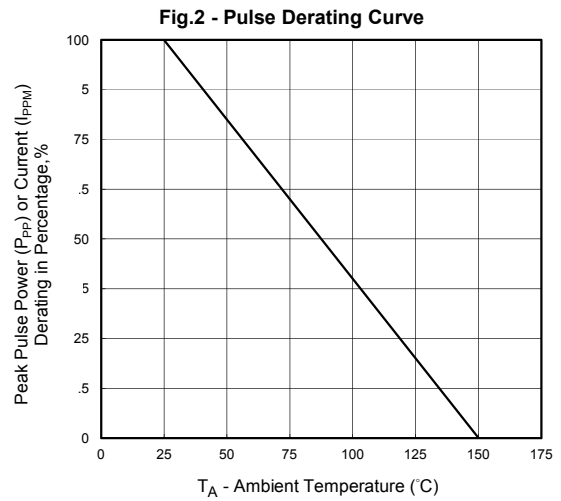
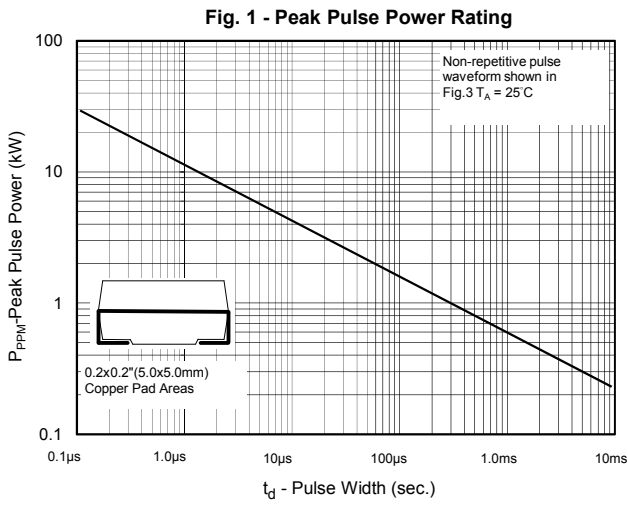
P6KASMB SERIES
SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR
STAND-OFF VOLTAGE - 5.0 TO 220 Volts
600 Watt Peak Pulse Power

P6KASMB PART NUMBER		DEVICE MARKING CODE		REVERSE STAND-OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V) @ I_T$		TEST CURRENT I_T (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp $V_c(V)$	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI- POLAR	BI-POLAR	UNI	BI		MIN	MAX				
5.0A	5.0CA	SKE	SAE	5.0	6.40	7.00	10	9.2	65.3	800
6.0A	6.0CA	SKG	SAG	6.0	6.67	7.37	10	10.3	58.3	800
6.5A	6.5CA	SKK	SAK	6.5	7.22	7.98	10	11.2	53.6	500
7.0A	7.0CA	SKM	SAM	7.0	7.78	8.60	10	12.0	50.0	200
7.5A	7.5CA	SKP	SAP	7.5	8.33	9.21	1	12.9	46.6	100
8.0A	8.0CA	SKR	SAR	8.0	8.89	9.83	1	13.6	44.2	50
8.5A	8.5CA	SKT	SAT	8.5	9.44	10.40	1	14.4	41.7	20
9.0A	9.0CA	SKV	SAV	9.0	10.00	11.10	1	15.4	39.0	10
10A	10CA	SKX	SAX	10.0	11.10	12.30	1	17.0	35.3	5
11A	11CA	SKZ	SAZ	11.0	12.20	13.50	1	18.2	33.0	1
12A	12CA	SLE	SBE	12.0	13.30	14.70	1	19.9	30.2	1
13A	13CA	SLG	SBG	13.0	14.40	15.90	1	21.5	28.0	1
14A	14CA	SLK	SBK	14.0	15.60	17.20	1	23.2	25.9	1
15A	15CA	SLM	SBM	15.0	16.70	18.50	1	24.4	24.6	1
16A	16CA	SLP	SBP	16.0	17.80	19.70	1	26.0	23.1	1
17A	17CA	SLR	SBR	17.0	18.90	20.90	1	27.6	21.8	1
18A	18CA	SLT	SBT	18.0	20.00	22.10	1	29.2	20.6	1
20A	20CA	SLV	SBV	20.0	22.20	24.50	1	32.4	18.6	1
22A	22CA	SLX	SBX	22.0	24.40	26.90	1	35.5	16.9	1
24A	24CA	SLZ	SBZ	24.0	26.70	29.50	1	38.9	15.5	1
26A	26CA	SME	SCE	26.0	28.90	31.90	1	42.1	14.3	1
28A	28CA	SMG	SCG	28.0	31.10	34.40	1	45.4	13.3	1
30A	30CA	SMK	SCK	30.0	33.30	36.80	1	48.4	12.4	1
33A	33CA	SMM	SCM	33.0	36.70	40.60	1	53.3	11.3	1
36A	36CA	SMP	SCP	36.0	40.00	44.20	1	58.1	10.4	1
40A	40CA	SMR	SCR	40.0	44.40	49.10	1	64.5	9.3	1
43A	43CA	SMT	SCT	43.0	47.80	52.80	1	69.4	8.7	1
45A	45CA	SMV	SCV	45.0	50.00	55.30	1	72.7	8.3	1
48A	48CA	SMX	SCX	48.0	53.30	58.90	1	77.4	7.8	1
51A	51CA	SMZ	SCZ	51.0	56.70	62.70	1	82.4	7.3	1
54A	54CA	SNE	SDE	54.0	60.00	66.30	1	87.1	6.9	1
58A	58CA	SNG	SDG	58.0	64.40	71.20	1	93.6	6.5	1
60A	60CA	SNK	SDK	60.0	66.70	73.70	1	96.8	6.2	1
64A	64CA	SNM	SDM	64.0	71.10	78.60	1	103.0	5.9	1
70A	70CA	SNP	SDP	70.0	77.80	86.00	1	113.0	5.3	1
75A	75CA	SNR	SDR	75.0	83.30	92.10	1	121.0	5.0	1
78A	78CA	SNT	SDT	78.0	86.70	95.80	1	126.0	4.8	1
85A	85CA	SNV	SDV	85.0	94.40	104.00	1	137.0	4.4	1
90A	90CA	SNX	SDX	90.0	100.00	111.00	1	146.0	4.1	1
100A	100CA	SNZ	SDZ	100.0	111.00	123.00	1	162.0	3.7	1
110A	110CA	SPE	SEE	110.0	122.00	135.00	1	177.0	3.4	1
120A	120CA	SPG	SEG	120.0	133.00	147.00	1	193.0	3.1	1
130A	130CA	SPK	SEK	130.0	144.00	159.00	1	209.0	2.9	1
150A	150CA	SPM	SEM	150.0	167.00	185.00	1	243.0	2.5	1
160A	160CA	SPP	SEP	160.0	178.00	197.00	1	259.0	2.3	1
170A	170CA	SPR	SER	170.0	189.00	209.00	1	275.0	2.2	1
180A	180CA	SPT	SET	180.0	201.00	222.00	1	292.0	2.1	1
190A	190CA	SPU	SEU	190.0	211.00	232.00	1	308.0	2.0	1
200A	200CA	SPV	SEV	200.0	224.00	247.00	1	324.0	1.9	1
220A	220CA	SPX	SEX	220.0	246.00	272.00	1	356.0	1.7	1

P6KASMB SERIES

RATINGS AND CHARACTERISTIC CURVES

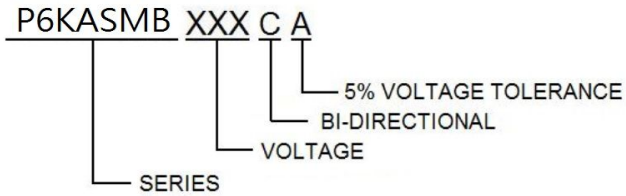
Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



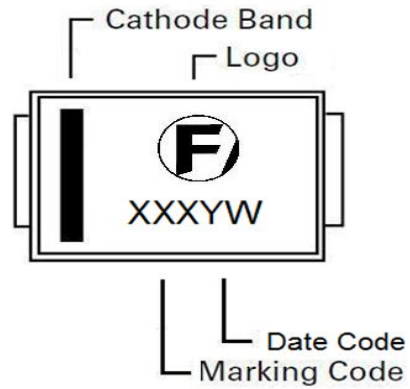
P6KASMB SERIES

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Part Numbering System



Part Marking System



Packaging

Part number	Component Package	Quantity	Packaging Option	Packaging Specification
P6KASMB xxxXX	DO-214AA	3000	Tape & Reel - 12mm/13" tape	EIA STD RS-481
P6KASMB xxxXX	DO-214AA	500	Tape & Reel - 12mm/ 7" tape	EIA STD RS-481