

TEL: 805-498-2111 FAX: 805-498-3804

ELECTRICAL CHARACTERISTICS @ 25°C (CONTINUED)

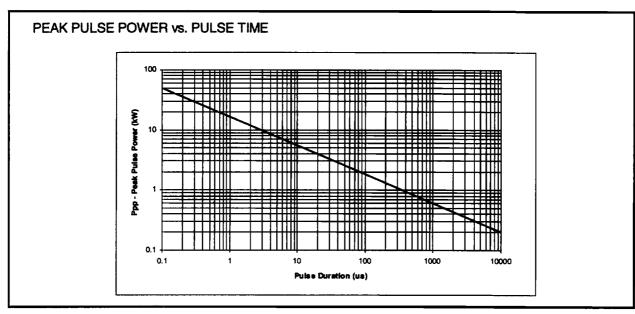
UNG- DERECTIONAL PART NUMBER	DEVICE MARKING CODE	DMECTIONAL PART HUMBER	DEVICE MARKING CODE	PRIVATORE VINES	REVERSE LEAKAGE VRWM	BREAKDOWN VOLTAGE VBR MIN Ø IT	TEST CURRENT ^I T	MAXMENS CLAMPING VOLTAGE OF 1pp (Vo)	PEAK PULSE CURRENT (lpp)	MAX. VOLTAGE TEMPERATURE VARIATION OF VBR
Note 1.		Note 1, 2		(9)	(μA)	(V)	(m A)	(V)	(A)	(m V/°C)
8M8J10 +	ĸw	SMBJ10C	AW	10	5	11.1	,	18.8	31.9	10
+ ADILBMS	кх	SMBJ10CA	AX AY	19 11	5 5	11.1 12.2	1 1	17.0 20.1	35.3 29.9	10 11
8MBJ11 8MBJ11A	KY KZ	SMBJ11C SMBJ11CA	AZ	11	6	12.2	1	18.2	33.0	11
8W8J12 +	LD	SMBJ12C +	80 8E	12 12	5 5	13.3 13.3	1	22.0 19.0	27.3 30.2	12 12
###J12A + 8#8J13	LE LF	SMBJ12CA + SMBJ13C	BF	13	5	14.4	1	23.8	25.2	13
SMBJ13A	LG	SMBJ13CA	BG BH	18 14	5 5	14.4 15.6	1	21,5 26.2	27.9 23.3	13
SMBJ14 Smbj14a	LH	SMBJ14C SMBJ14CA	ak ak	14	5	15.6	i	29.2	25.8	14
* 11LEMB	LL	SMBJ18C +	BL BM	16 18	5 5	16.7 16.7	1 1	26.9 24.4	22.3 24.0	1 6 1 6
SMBJ16 +	LM	SMBJ18CA +	BN		5	17.8	1	28.8	20.8	19
SMBJ16A	LP	8MBJ16CA	BP BQ	18 17	5 5	17.8 18.9	1 1	28.0 30.5	23.1 19.7	17 20
SMBJ17 SMBJ17A	LQ LR	SMBJ17C SMBJ17CA	BR	17	6	18.9	1	27.6	21.7	19
SMBJ18	L8	SMBJ18C	88 8T	10	5 5	20.0 20.0	1	32.2 29.2	18.6 20.5	21 20
SMBJ18A SMBJ20	LT	SMBJ18CA SMBJ20C	BÜ	20	5	22.2	1	35.6	16.7	25
SMBJ20A	ĹV	SMBJ20CA	BV	20 22	5	22.2	1 -	32.4	18.5	23
SMBJ22 SMBJ22A	LW	SMBJ22CA	8X	22	5	24.4	j ;	35.5	16.9	25
8MBJ24 +	LY	8M8J24C +	8 Y 8 Z	24 24	5 5	26.7 26.7	1 1	43.0 38.0	14.0 15.4	31 28
8M9J24A +	LZ MD	SMBJ24CA +	CD CD	24	5	28.9	1	48.8	12.4	31
SMBJ26A	ME	SMBJ26CA	CE	**	5 5	28.9 31.1	1 1	42.1 60.0	14.2 12.0	30 35
SMB128 +	MF MG	SMBJ28C +	CF CG	26 28	5 _	31.1	i _	45.4	13.2	31
SMBJ30	MH	SMBJ30C	CH	50	5 5	33.3 33.3	1 1	59.6 48.4	11.2 12.4	39 36
AOSLEMB	MK ML	SMBJ30CA SMBJ33C +	CK	30 55	5	36.7	i	59.0	10.2	42
MBJ33A +	MM	SMBJ13CA +	CM	33	- 6	36.7	1	63.3 64.3	9.3	39
SMBJ36	MN	SMBJ36C SMBJ36CA	CN CP	3.0 3.0	5	40.0 40.0	i	58.1	10.3	41
8MBJ40 +	MO	8MBJ40C +	CQ	40	5	44.4 44.4	1	71.4 64.5	8.4 9.3	51 46
SMBJ40A +	MR	SMBJ40CA +	CR CS	40 43	5 5	47.8	 	76.7	7.8	55
SMBJ43 SMBJ43A	MT	SMBJ43CA	СТ	43	5	47.8	1	59.4 60.3	8.6 7.5	50 58
SMBJ45	MU	SMBJ45C SMBJ45CA	CV	48 48	5 5	50.0 50.0	1	72.7	8.3	52
SMBJ45A SMBJ48	WW.	SMBJ48C	cw	4.4	5	53.3	1	85.5 77.4	7.0 7.7	63 56
SMBJ48A	MX MY	SMBJ48CA SMBJ51C	CX	48 51	5 5	53.3 58.7	1	91.1	6.6	86
A LELGMS	MZ	SMBJ51CA	CZ	81	. 5	58.7	1	82.4	7.3	61 71
9M8J54	ND	SMBJ54C SMBJ54CA	DE	54 64	5 5	60.0 60.0	1 1	98.3 87.1	6.2 6.9	8.6
SMBJ54A BMBJ50 +	NE NF	SMBJSSC +	DF	58	5	64.4	1 1	105.0	5.8 6.4	78 70
SMB158A +	NG	SMBJSSCA +	DG DH	5.5	5	64.4	+ 1	107.0	5.6	80
SMBJ60 SMBJ60	NK NK	SMBJ60CA	DK	60	5	66.7	1	90.8	6.2	7 t
SMBJ64 +	NL	SMBJ64C +	DL DM	64 64	5 5	71.1 71.1	1 1	114.0 103.0	5.3 5.8	76
SMBJ64A •	NM NN	SMBJ64CA +	DN	7.0	5	77.8	1	178	4.8	9.4 8.5
SMBJ70A	NP	SMBJ70CA	DP DQ	70 76	5 5	77.8 83.3	1	119 194	5.3 4.5	101
SMBJ75 SMBJ75A	NQ NR	SMBJ75CA +	DR	74	5	83.3	11	121	4.9	91
SMBJ78	N8	SMBJ78C SMBJ78CA	DS DT	7;	5	86.7 86.7	1	139	4.3	95
SMBJ78A SMBJ85	NT NU	SMBJ85C	טס	#5	5	94.4	1 1	151 187	3.9 4.4	114 103
SMBJ85A	NV	SMBJ85CA	DV DW	88	5 5	94.4	1 1	160	3.8	121
SMBJ90A	NW NX	SWB130CY	DX	96	5	100	1	148	4.1	110 135
8MBJ100	NY	SMBJ100C	DY DZ	199 196	5 5	111	1	179 162	3.4 3.7	123
SMBJ100A SMBJ110	PD	SMBJ100CA SMBJ110C	ED	110	5	122	1	196	3.0	148 133
SMBJ110A	PE	SMBJ110CA	EE EF	110 120	5 5	122 133	1 1	177 214	3.4 2.8	162
SMBJ120 SMBJ120A	PF PG	8M8J120C ◆ 8M8J120CA◆	EG	120	5	133	1	193	3.1	146
SMBJ130	PH	SMBJ130C	EH	130	5 5	144 144	1 1	231 209	2.6 2.9	175 158
SMBJ130A SMBJ150	PK PL	SMBJ130CA SMBJ150C	EK EL	150	5	167	1	288	2.2	203 184
SMBJ150A	PM	SMBJ150CA	EM	180	<u>5</u>	167 178	++	243 287	2.5 2.1	217
SMBJ160 SMBJ160A	PN	SMBJ160CA	EN EP	160		178	1	259	2.3	196 230
	. , ,	SM8J170C +	EQ	170] 5	189	1 1	304	2.0	230

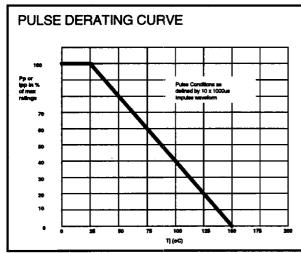
NOTE 1: "A" = $\pm 5\%$ of nominal V_{BR} , standard tolerance is $\pm 10\%$. NOTE 2: Bidirectional devices have symmetrical avalanche characteristics in both directions. NOTE 3: For bidirectional devices with VPIWMI ≤ 10 volts, the IR limit is doubled.

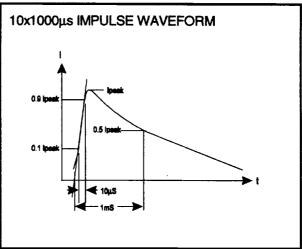
• : Popular / Recommended part types

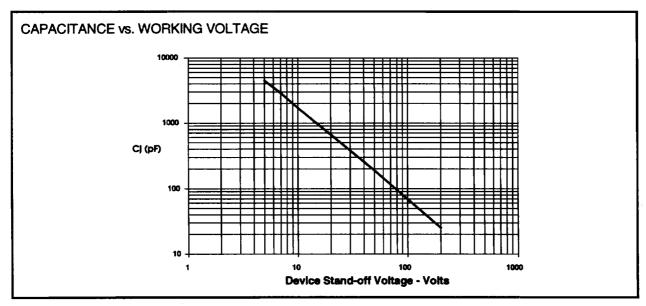


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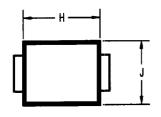




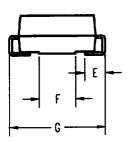


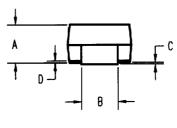
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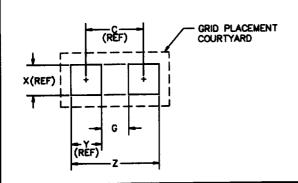
MECHANICAL OUTLINE & LAND PATTERN - DO-214AA



MAA	MHA	MAYA.	3464	
2.41	1.90	.095	.075	A
2.15	1.90	.085	.075	В
.20	.10	.008	.004	Č
.51	_	.020		D
1.52	.76	.060	.030	Ē
2.13	1.65	.084	.065	F
 5.58	5.10	.220	.201	G
4.60	4.06	.181	.160	H
3.90	3.30	.154	.130	J





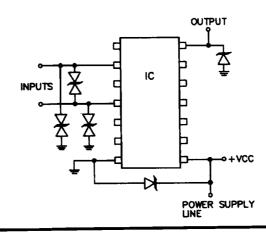


	DIMENSIONS									
DIMAN	INC		>	NOTE						
PIM"	MIN	MAX	MIN	MAX	NOIL					
C	_	.172	ı	4.40	ı					
G	.080	.086	2.00	2.20	-					
X	.086	.090	2.20	2.40	_					
Y	_	.090	-	2,40						
Z	.260	.270	6.60	6.80	1					

Note: Grid placement courtyard is 8 x 16 elements (4mm x 8mm) in accordance with the internetional grid detailed in IEC publication 97.

TYPICAL APPLICATION: IC PROTECTION

Transient protection for integrated circuits is recommended at the power supply line and signal line interfaces which exit the equipment. A generic application is shown below.



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Semtech:

SMBJ33CA SMBJ36CA SMBJ58CA SMBJ12CA SMBJ24CA SMBJ30CA