SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

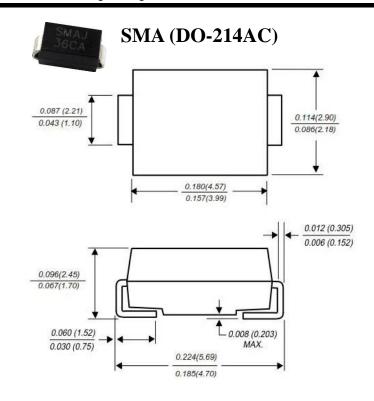
Stand-off Voltage: 5.0-440 Volts Peak pulse power: 400 Watts

FEATURES

- ◆Optimzed for LAN protection applications.
- ◆Ideal for ESD protection of data lines in accordance with IEC 1000-4-2(IEC801-2).
- ◆Ideal for EFT protection of data lines in accordance with IEC1000-4-4(IEC801-2).
- ◆Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- ◆Glass passivated junction.
- ◆300w peak pulse power capability.
- ◆Excellent clamping capability.
- ◆Low incremental surge resistance.
- ◆Fast response time:typically less than 1.0ps from 0v to V_(BR) min.
- ◆High temperature soldering guaranteed: 250°C/10S at terminals.

Mechanical Data

- ◆Case: JEDEC DO-214AC molded plastic body over passivated chip.
- ◆Terminals: Solder plated, solderable per MIL-STD 750, method 2026.
- ◆Polarity: Color band denotes cathode except for bidirectional types.
- ◆Mounting Position: Any.



Dimensions in inches and (millimeters)

DEVICES FOR BIDIRECTIONAL APPLICATIONS

For bidirectional use suffix C for types SMAJ5.0A thru SMAJ440A (e.g. SMAJ5.0CA,SMAJ440CA) Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Peak pulse power dissipation with a 10/1000ms wavetorm (NOTE 1,2,5,FIG.1)	P _{PPM}	Minimum 400	Watts
Peak forward surge current (Note 4)	I_{FSM}	40.0	Amps
Peak pulse current with a 10/1000ms waveform (NOTE 1)	I_{PPM}	See Table 1	Amps
Steady state power dissapation (Note 3)	P _{M(AV)}	1.0	Watts
Maximum instantaneous forward voltage at 25A (Note 4)	V_{F}	3.5	Volts
Operating junction and storage temperature range	T_{STG}, T_{J}	-55 to + 150	${\mathbb C}$

Notes: 1.Non-repetitive current pulse,per Fig.3 and derated above T_A=25 °C per Fig.2

- 2.Mounted on 5.0mm² copper pads to each terminal
- 3.Lead temperature at T_L=75 °C per Fig.5
- 4.Measured on 8.3ms single half sine-wine. For uni-directional devices only
- 5.Peak pulse power waveform is 10/1000ms

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Stand-off Voltage: 5.0-440 Volts Peak pulse power: 400 Watts

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

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Part	Part	ı		Stand off	ı	_	Test		I	Reverse
Color Col	Number	Number	ı	_	Voltage			Current			Leakage
NAJ5.0A SMAJ5.0CA AE WE S 6.4 7 10 9.2 43.5 800	(Uni)	(Bi)	Code		V _D (voits) @		I_T (mA)		1	$I_R @ V_R$	
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SMAJ6.0A SMAJ6.0CA AG WG 6 6.67 7.37 10 10.3 38.8 800 SMAJ6.5A SMAJ6.5CA AK WK 6.5 7.22 7.98 10 11.2 35.7 500 SMAJ7.0A SMAJ7.0CA AM WM 7 7.78 8.6 10 12 33.3 200 SMAJ7.5A SMAJ7.5CA AP WP 7.5 8.33 9.21 1 12.9 31 100 SMAJ8.0A SMAJ8.0CA AR WR 8 8.89 9.83 1 13.6 29.4 50 SMAJ8.5A SMAJ8.5CA AT WT 8.5 9.44 10.4 1 14.4 27.8 20 SMAJ9.0A SMAJ9.0CA AV WV 9 10 11.1 12.3 1 17 23.5 5 SMAJ10A SMAJ10CA AX WX 10 11.1 12.3 1 17 <t< td=""><td>CMA IS OA</td><td>CMA IS OCA</td><td>_</td><td></td><td></td><td></td><td></td><td>10</td><td></td><td></td><td></td></t<>	CMA IS OA	CMA IS OCA	_					10			
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SMAJ24A SMAJ24CA BZ XZ 24 26.7 29.5 1 38.9 10.3 5 SMAJ26A SMAJ26CA CE YE 26 28.9 31.9 1 42.1 9.5 5 SMAJ28A SMAJ28CA CG YG 28 31.1 34.4 1 45.4 8.8 5 SMAJ30A SMAJ30CA CK YK 30 33.3 36.8 1 48.4 8.3 5 SMAJ33A SMAJ33CA CM YM 33 36.7 40.6 1 53.3 7 5 SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ20A	SMAJ20CA	BV	XV	20	22.2	24.5	1	32.4	12.3	5
SMAJ26A SMAJ26CA CE YE 26 28.9 31.9 1 42.1 9.5 5 SMAJ28A SMAJ28CA CG YG 28 31.1 34.4 1 45.4 8.8 5 SMAJ30A SMAJ30CA CK YK 30 33.3 36.8 1 48.4 8.3 5 SMAJ33A SMAJ33CA CM YM 33 36.7 40.6 1 53.3 7 5 SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ22A	SMAJ22CA	BX	XY	22	24.4	26.9	1	35.5	11.3	5
SMAJ28A SMAJ28CA CG YG 28 31.1 34.4 1 45.4 8.8 5 SMAJ30A SMAJ30CA CK YK 30 33.3 36.8 1 48.4 8.3 5 SMAJ33A SMAJ33CA CM YM 33 36.7 40.6 1 53.3 7 5 SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ24A	SMAJ24CA	BZ	XZ	24	26.7	29.5	1	38.9	10.3	5
SMAJ30A SMAJ30CA CK YK 30 33.3 36.8 1 48.4 8.3 5 SMAJ33A SMAJ33CA CM YM 33 36.7 40.6 1 53.3 7 5 SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ26A	SMAJ26CA	CE	YE	26	28.9	31.9	1	42.1	9.5	5
SMAJ33A SMAJ33CA CM YM 33 36.7 40.6 1 53.3 7 5 SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ28A	SMAJ28CA	CG	YG	28	31.1	34.4	1	45.4	8.8	5
SMAJ36A SMAJ36CA CP YP 36 40 44.2 1 58.1 6.9 5	SMAJ30A	SMAJ30CA	CK	YK	30	33.3	36.8	1	48.4	8.3	5
	SMAJ33A	SMAJ33CA	CM	YM	33	36.7	40.6	1	53.3	7	5
CHALLON COLUMN TO THE TOTAL COLUMN TO THE TOTA	SMAJ36A	SMAJ36CA	CP	ΥP	36	40	44.2	1	58.1	6.9	5
SMAJ40A SMAJ40CA CK YK 40	SMAJ40A	SMAJ40CA	CR	YR	40	44.4	49.1	1	64.5	6.2	5
SMAJ43A SMAJ43CA CT YT 43 47.8 52.8 1 69.4 5.8 5	SMAJ43A	SMAJ43CA	CT	YT	43	47.8	52.8	1	69.4	5.8	5
SMAJ45A SMAJ45CA CV YV 45 50 55.3 1 72.7 5.5 5	SMAJ45A	SMAJ45CA	CV	YV	45	50	55.3	1	72.7	5.5	5
SMAJ48A SMAJ48CA CX YX 48 53.3 58.9 1 77.4 5.2 5	SMAJ48A	SMAJ48CA	CX	YX	48	53.3	58.9	1	77.4	5.2	5
SMAJ51A SMAJ51CA CZ YZ 51 56.7 62.7 1 82.4 4.9 5	SMAJ51A	SMAJ51CA	CZ	YZ	51	56.7	62.7	1	82.4	4.9	5
SMAJ54A SMAJ54CA RE ZE 54 60 66.3 1 87.1 4.6 5			_					1			
SMAJ58A SMAJ58CA RG ZG 58 64.4 71.2 1 93.6 4.3 5	SMAJ58A	SMAJ58CA	RG	ZG	58	64.4	71.2	1	93.6	4.3	5
SMAJ60A SMAJ60CA RK ZK 60 66.7 73.7 1 96.8 4.1 5			RK	ZK	60	66.7	_	1		4.1	5
SMAJ64A SMAJ64CA RM ZM 64 71.1 78.6 1 103 3.9 5								1	103		
SMAJ70A SMAJ70CA RP ZP 70 77.8 86 1 113 3.5 5			_	_		_	_				
SMAJ75A SMAJ75CA RR ZR 75 83.3 92.1 1 121 3.3 5				_							

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Stand-off Voltage: 5.0-440 Volts Peak pulse power: 400 Watts

ELECTRICAL CHARACTERISTICS (at T_A =25°C unless otherwise noted)

Part Number (Uni)	Part Number (Bi)	Marl Co	rice king de BI	Reverse Stand off Voltage V _R (Volts)	VI (Volt	tage BR	Test	Maximum Clampin g Voltage V _C @ I _{PP} (Volts)	Maximum Peak Pulse Current I _{PP} (A)	Maximum Reverse Leakage I _R @ V _R (\mu A)
SMAJ78A	SMAJ78CA	RT	ZT	78	86.7	95.8	1	126	3.2	5
SMAJ85A	SMAJ85CA	RV	ZV	85	94.4	104	1	137	2.9	5
SMAJ90A	SMAJ90CA	RX	ZX	90	100	111	1	146	2.7	5
SMAJ100A	SMAJ100CA	RZ	ZZ	100	111	123	1	162	2.5	5
SMAJ110A	SMAJ110CA	SE	VE	110	122	135	1	177	2.3	5
SMAJ120A	SMAJ120CA	SG	VG	120	133	147	1	193	2.1	5
SMAJ130A	SMAJ130CA	SK	VK	130	144	159	1	209	1.9	5
SMAJ150A	SMAJ150CA	SM	VM	150	167	185	1	243	1.6	5
SMAJ160A	SMAJ160CA	SP	VP	160	178	197	1	259	1.5	5
SMAJ170A	SMAJ170CA	SR	VR	170	189	209	1	275	1.5	5
SMAJ180A	SMAJ180CA	ST	VT	180	201	222	1	292	1.4	5
SMAJ200A	SMAJ200CA	SV	VV	200	224	247	1	324	1.2	5
SMAJ220A	SMAJ220CA	SX	VX	220	246	272	1	356	1.1	5
SMAJ250A	SMAJ250CA	SZ	VZ	250	279	309	1	405	1	5
SMAJ300A	SMAJ300CA	TE	UE	300	335	371	1	486	0.8	5
SMAJ350A	SMAJ350CA	TG	UG	350	391	432	1	567	0.7	5
SMAJ400A	SMAJ400CA	TK	UK	400	447	494	1	648	0.6	5
SMAJ440A	SMAJ440CA	TM	UM	440	492	543	1	713	0.6	5

NOTES: $1.V_{(BR)}$ measured after I_T applied for 300 ms, I_T =square wave pulse or equivalent

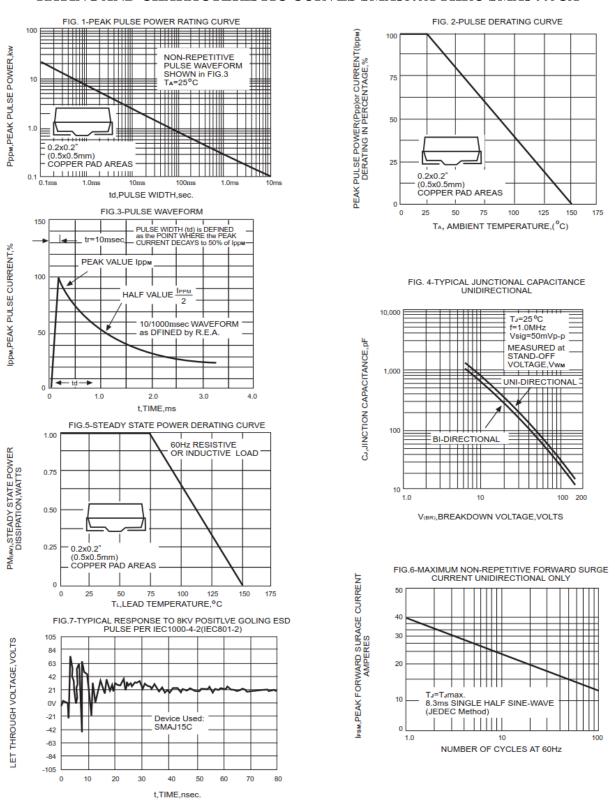
- 2.Surge current waveform per Fig.3 and derated per Fig.2
- 3. For bidirectional types having V_{WM} of 10 volts and less, the ID linit is doubled
- 4.All items and symbols are consistent with ANSI/IEEE C62.35
- 5.Peak pulse power waveform is 10/1000ms



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Stand-off Voltage: 5.0-440 Volts Peak pulse power: 400 Watts

RATING AND CHARACTERISTIC CURVES SMAJ5.0A THRU SMAJ440CA



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