

Data Sheet

Customer : _____

Product : Surface Mount Transient Voltage Suppressor Rectifiers _____

Package : DO-214AC/(SMA) _____

Issued Date : 01-Aug.-2026 _____

Edition : Ver. 1 _____

Record of change

Date	Ver.	Description	Page
01-Aug.-2026	1		

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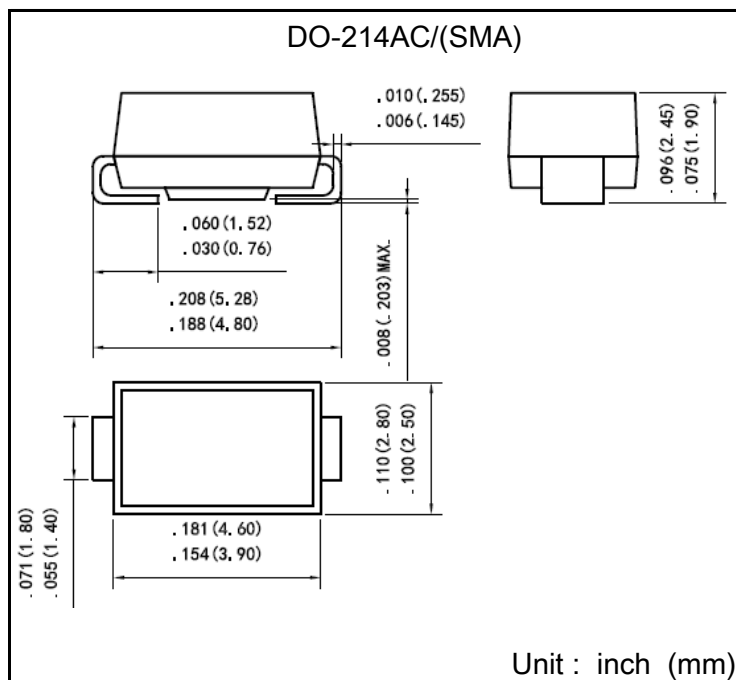
Prepared by	Checked by	Approved by	Accepted by (customer)
01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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HTSMAJxx(C)A Series

Surface Mount Transient Voltage Suppressor Rectifiers

Reverse Voltage 5.0 ~ 550 V

400 Watt Peak Pulse Power



Features

- Glass passivated chip
- 400 W peak pulse power capability with a 10/1000 us waveform, repetitive rate (duty cycle):0.01 %
- Excellent clamping capability
- Low reverse leakage
- Very fast response time
- Lead and body according with RoHS standard

Mechanical Data

- Case: DO-214AC/(SMA) Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any
- System: Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Unit
Peak power dissipation with a 10/1000 us waveform ⁽¹⁾	P _{PP}	400	W
Peak pulse current with a 10/1000 us waveform ⁽¹⁾	I _{PP}	See Next Table	A
Power dissipation on infinite heatsink at TL = 75 °C	P _D	3.0	W
Peak forward surge current, 8.3 ms single half sinewave unidirectional only ⁽²⁾	I _{FSM}	40	A
Maximum instantaneous forward voltage at 25 A for unidirectional only ⁽³⁾	V _F	3.5/6.5	V
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note:

1)Non-repetitive current pulse per Fig.5 and derated above TA= 25 °C per Fig.1 ;

2)Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum ;

3)VF<3.5V for devices of VBR<200V and VF<6.5V for devices of VBR>201V.

HTSMAJxx(C)A Series

Part Number		Device Marking Code		Reverse Stand-off Voltage	Breakdown Voltage $V_{BR} @ I_T$		Test Current	Max. Clamping Voltage @ I_{PP}	Max. Peak Pulse Current	Max. Reverse Leakage @ V_{RWM}
UNI-POLAR	BI-POLAR	UNI	BI	$V_{RWM}(V)$	Min.(V)	Max.(V)	$I_T(mA)$	$V_{C MAX}(V)$	$I_{PP}(A)$	$I_R(\mu A)$
HTSMAJ5.0A	HTSMAJ5.0CA	AE	WE	5.0	6.40	7.00	10	9.2	43.5	800
HTSMAJ6.0A	HTSMAJ6.0CA	AG	WG	6.0	6.67	7.37	10	10.3	38.8	800
HTSMAJ6.5A	HTSMAJ6.5CA	AK	WK	6.5	7.22	7.98	10	11.2	35.7	500
HTSMAJ7.0A	HTSMAJ7.0CA	AM	WM	7.0	7.78	8.60	10	12.0	33.3	200
HTSMAJ7.5A	HTSMAJ7.5CA	AP	WP	7.5	8.33	9.21	1	12.9	31.0	100
HTSMAJ8.0A	HTSMAJ8.0CA	AR	WR	8.0	8.89	9.83	1	13.6	29.4	50
HTSMAJ8.5A	HTSMAJ8.5CA	AT	WT	8.5	9.44	10.40	1	14.4	27.8	20
HTSMAJ9.0A	HTSMAJ9.0CA	AV	WV	9.0	10.00	11.10	1	15.4	26.0	10
HTSMAJ10A	HTSMAJ10CA	AX	WX	10.0	11.10	12.30	1	17.0	23.5	5
HTSMAJ11A	HTSMAJ11CA	AZ	WZ	11.0	12.20	13.50	1	18.2	22.0	1
HTSMAJ12A	HTSMAJ12CA	BE	XE	12.0	13.30	14.70	1	19.9	20.1	1
HTSMAJ13A	HTSMAJ13CA	BG	XG	13.0	14.40	15.90	1	21.5	18.6	1
HTSMAJ14A	HTSMAJ14CA	BK	XK	14.0	15.60	17.20	1	23.2	17.2	1
HTSMAJ15A	HTSMAJ15CA	BM	XM	15.0	16.70	18.50	1	24.4	16.4	1
HTSMAJ16A	HTSMAJ16CA	BP	XP	16.0	17.80	19.70	1	26.0	15.4	1
HTSMAJ17A	HTSMAJ17CA	BR	XR	17.0	18.90	20.90	1	27.6	14.5	1
HTSMAJ18A	HTSMAJ18CA	BT	XT	18.0	20.00	22.10	1	29.2	13.7	1
HTSMAJ20A	HTSMAJ20CA	BV	XV	20.0	22.20	24.50	1	32.4	12.3	1
HTSMAJ22A	HTSMAJ22CA	BX	XX	22.0	24.40	26.90	1	35.5	11.3	1
HTSMAJ24A	HTSMAJ24CA	BZ	XZ	24.0	26.70	29.50	1	38.9	10.3	1
HTSMAJ26A	HTSMAJ26CA	CE	YE	26.0	28.90	31.90	1	42.1	9.5	1
HTSMAJ28A	HTSMAJ28CA	CG	YG	28.0	31.10	34.40	1	45.4	8.8	1
HTSMAJ30A	HTSMAJ30CA	CK	YK	30.0	33.50	36.80	1	48.4	8.3	1
HTSMAJ33A	HTSMAJ33CA	CM	YM	33.0	36.70	40.60	1	53.3	7.5	1
HTSMAJ36A	HTSMAJ36CA	CP	YP	36.0	40.00	44.20	1	58.1	6.9	1
HTSMAJ40A	HTSMAJ40CA	CR	YR	40.0	44.40	49.10	1	64.5	6.2	1
HTSMAJ43A	HTSMAJ43CA	CT	YT	43.0	47.80	52.80	1	69.4	5.8	1
HTSMAJ45A	HTSMAJ45CA	CV	YV	45.0	50.00	55.30	1	72.7	5.5	1
HTSMAJ48A	HTSMAJ48CA	CX	YX	48.0	53.30	58.90	1	77.4	5.2	1
HTSMAJ51A	HTSMAJ51CA	CZ	YZ	51.0	56.70	62.70	1	82.4	4.9	1
HTSMAJ54A	HTSMAJ54CA	RE	ZE	54.0	60.00	66.30	1	87.1	4.6	1
HTSMAJ58A	HTSMAJ58CA	RG	ZG	58.0	64.40	71.20	1	93.6	4.3	1
HTSMAJ60A	HTSMAJ60CA	RK	ZK	60.0	66.70	73.70	1	96.8	4.1	1
HTSMAJ64A	HTSMAJ64CA	RM	ZM	64.0	71.10	78.60	1	103.0	3.9	1
HTSMAJ70A	HTSMAJ70CA	RP	ZP	70.0	77.80	86.00	1	113.0	3.5	1
HTSMAJ75A	HTSMAJ75CA	RR	ZR	75.0	83.30	92.10	1	121.0	3.3	1
HTSMAJ78A	HTSMAJ78CA	RT	ZT	78.0	86.70	95.80	1	126.0	3.2	1
HTSMAJ85A	HTSMAJ85CA	RV	ZV	85.0	94.4	104.0	1	137.0	2.9	1
HTSMAJ90A	HTSMAJ90CA	RX	ZX	90.0	100.0	111.0	1	146.0	2.7	1
HTSMAJ100A	HTSMAJ100CA	RZ	ZZ	100.0	111.0	123.0	1	162.0	2.5	1
HTSMAJ110A	HTSMAJ110CA	SE	VE	110.0	122.0	135.0	1	177.0	2.3	1
HTSMAJ120A	HTSMAJ120CA	SG	VG	120.0	133.0	147.0	1	193.0	2.1	1
HTSMAJ130A	HTSMAJ130CA	SK	VK	130.0	144.0	159.0	1	209.0	1.9	1
HTSMAJ150A	HTSMAJ150CA	SM	VM	150.0	167.0	185.0	1	243.0	1.6	1
HTSMAJ160A	HTSMAJ160CA	SP	VP	160.0	178.0	197.0	1	259.0	1.5	1
HTSMAJ170A	HTSMAJ170CA	SR	VR	170.0	189.0	209.0	1	275.0	1.5	1
HTSMAJ180A	HTSMAJ180CA	ST	VT	180.0	201.0	222.0	1	292.0	1.4	1
HTSMAJ190A	HTSMAJ190CA	SU	YU	190.0	209.0	243.0	1	308.0	1.3	1
HTSMAJ200A	HTSMAJ200CA	SV	VV	200.0	224.0	247.0	1	324.0	1.2	1
HTSMAJ210A	HTSMAJ210CA	SW	YW	210.0	231.0	268.0	1	340.0	1.2	1
HTSMAJ220A	HTSMAJ220CA	GX	VX	220.0	246.0	272.0	1	356.0	1.1	1
HTSMAJ250A	HTSMAJ250CA	SZ	VZ	250.0	279.0	309.0	1	405.0	1.0	1
HTSMAJ300A	HTSMAJ300CA	TE	UE	300.0	335.0	371.0	1	486.0	0.8	1
HTSMAJ350A	HTSMAJ350CA	TG	UG	350.0	391.0	432.0	1	567.0	0.7	1
HTSMAJ400A	HTSMAJ400CA	TK	UK	400.0	447.0	494.0	1	648.0	0.6	1
HTSMAJ440A	HTSMAJ440CA	TM	UM	440.0	492.0	543.0	1	713.0	0.6	1
HTSMAJ480A	HTSMAJ480CA	TP	UP	480.0	536.0	593.0	1	750.0	0.5	1
HTSMAJ520A	HTSMAJ520CA	TR	UR	520.0	578.0	640.0	1	762.0	0.5	1
HTSMAJ550A	HTSMAJ550CA	TT	UT	550.0	615.0	680.0	1	860.0	0.4	1

Ratings and Characteristics Curves (TA=25°C unless otherwise noted)

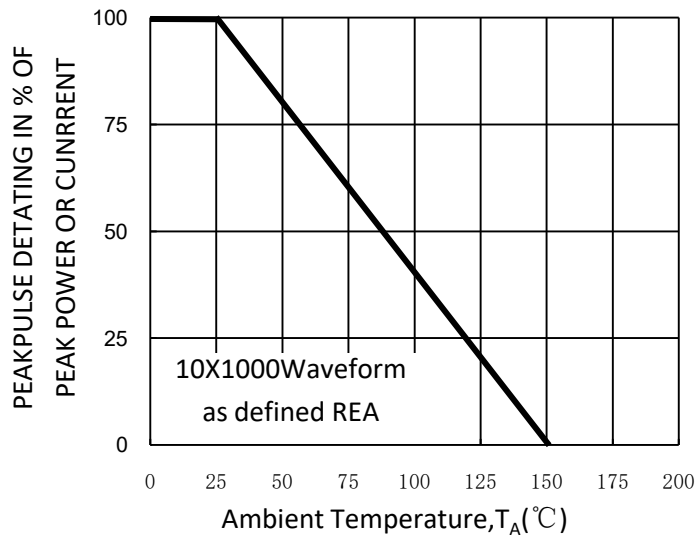


Fig. 1-Pulse Derating Curve

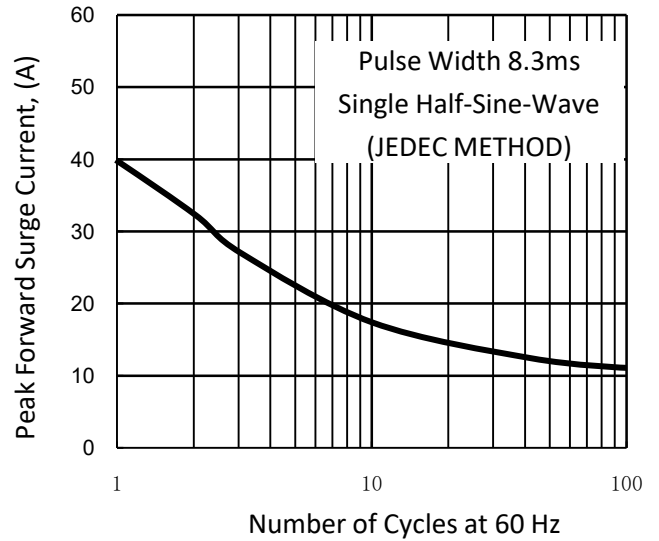


Fig. 2-Maximum Non-Repetitive Surge Current

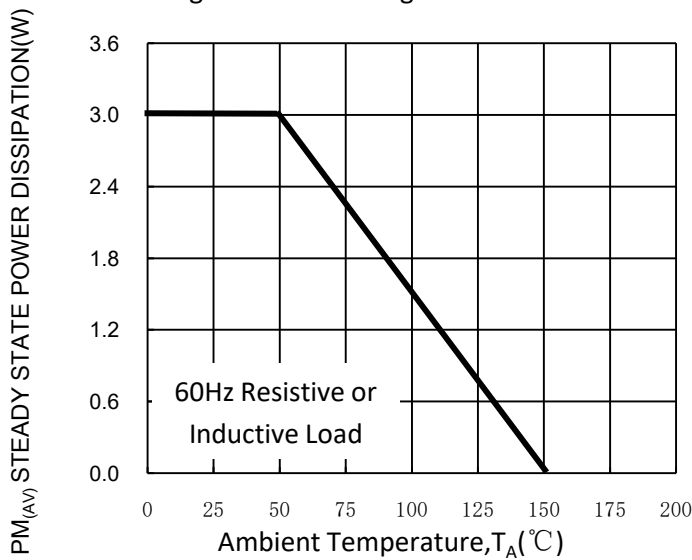


Fig. 3-Steady State Power Derating Curve

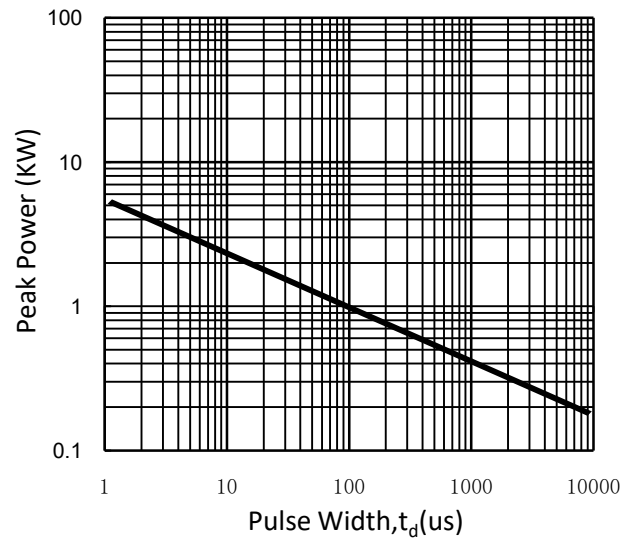


Fig. 4-Peak Pulse Power Rating Curve

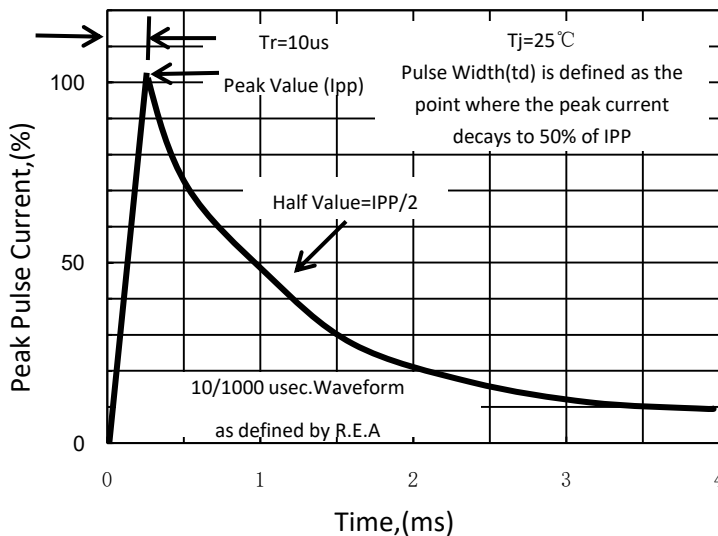


Fig. 5-Pulse Waveform

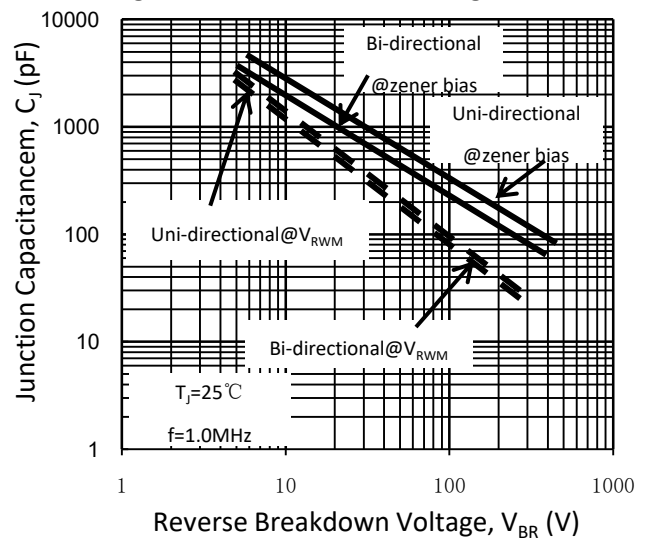


Fig. 6-Typical Junction Capacitance