

Data Sheet

Customer : _____

Product : Surface Mount Transient Voltage Suppressor Rectifiers _____

Package : DO214AA/(SMB) _____

Issued Date : 01-Aug.-2026 _____

Edition : Ver. 1 _____

Record of change

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

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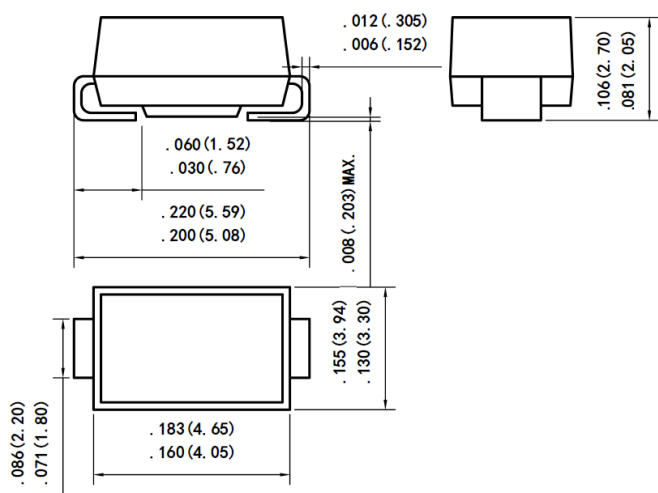
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01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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DO214AA/(SMB)



Unit : inch (mm)

Features

- Glass passivated chip
- 600 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: DO214AA/(SMB) Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- System: Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)
- Mounting position: Any

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}	600	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	5.0	W
Peak forward surge current, 8.3 ms single half sinewave unidirectional only ⁽²⁾	I _{FSM}	100	A
Maximum instantaneous forward voltage at 50 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)V_F<3.5V for devices of VBR<200V and V_F<6.5V for devices of VBR>201V.

HTSMBJxx(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)	$I_T(mA)$	$V_{C MAX}(V)$	$I_{PP}(A)$	$I_R(\mu A)$
HTSMBJ5.0A	HTSMBJ5.0CA	KE	AE	5.0	6.40	7.00	10	9.2	65.3	800
HTSMBJ6.0A	HTSMBJ6.0CA	KG	AG	6.0	6.67	7.37	10	10.3	58.3	800
HTSMBJ6.5A	HTSMBJ6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.6	500
HTSMBJ7.0A	HTSMBJ7.0CA	KM	AM	7.0	7.78	8.60	10	12.0	50.0	200
HTSMBJ7.5A	HTSMBJ7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.6	100
HTSMBJ8.0A	HTSMBJ8.0CA	KR	AR	8.0	8.89	9.83	1	13.6	44.2	50
HTSMBJ8.5A	HTSMBJ8.5CA	KT	AT	8.5	9.44	10.40	1	14.4	41.7	20
HTSMBJ9.0A	HTSMBJ9.0CA	KV	AV	9.0	10.00	11.10	1	15.4	39.0	10
HTSMBJ10A	HTSMBJ10CA	KX	AX	10.0	11.10	12.30	1	17.0	35.3	5
HTSMBJ11A	HTSMBJ11CA	KZ	AZ	11.0	12.20	13.50	1	18.2	33.0	1
HTSMBJ12A	HTSMBJ12CA	LE	BE	12.0	13.30	14.70	1	19.9	30.2	1
HTSMBJ13A	HTSMBJ13CA	LG	BG	13.0	14.40	15.90	1	21.5	28.0	1
HTSMBJ14A	HTSMBJ14CA	LK	BK	14.0	15.60	17.20	1	23.2	25.9	1
HTSMBJ15A	HTSMBJ15CA	LM	BM	15.0	16.70	18.50	1	24.4	24.6	1
HTSMBJ16A	HTSMBJ16CA	LP	BP	16.0	17.80	19.70	1	26.0	23.1	1
HTSMBJ17A	HTSMBJ17CA	LR	BR	17.0	18.90	20.90	1	27.6	21.8	1
HTSMBJ18A	HTSMBJ18CA	LT	BT	18.0	20.00	22.10	1	29.2	20.6	1
HTSMBJ20A	HTSMBJ20CA	LV	BV	20.0	22.20	24.50	1	32.4	18.6	1
HTSMBJ22A	HTSMBJ22CA	LX	BX	22.0	24.40	26.90	1	35.5	16.9	1
HTSMBJ24A	HTSMBJ24CA	LZ	BZ	24.0	26.70	29.50	1	38.9	15.5	1
HTSMBJ26A	HTSMBJ26CA	ME	CE	26.0	28.90	31.90	1	42.1	14.3	1
HTSMBJ28A	HTSMBJ28CA	MG	CG	28.0	31.10	34.40	1	45.4	13.3	1
HTSMBJ30A	HTSMBJ30CA	MK	CK	30.0	33.50	36.80	1	48.4	12.4	1
HTSMBJ33A	HTSMBJ33CA	MM	CM	33.0	36.70	40.60	1	53.3	11.3	1
HTSMBJ36A	HTSMBJ36CA	MP	CP	36.0	40.00	44.20	1	58.1	10.4	1
HTSMBJ40A	HTSMBJ40CA	MR	CR	40.0	44.40	49.10	1	64.5	9.3	1
HTSMBJ43A	HTSMBJ43CA	MT	CT	43.0	47.80	52.80	1	69.4	8.7	1
HTSMBJ45A	HTSMBJ45CA	MV	CV	45.0	50.00	55.30	1	72.7	8.3	1
HTSMBJ48A	HTSMBJ48CA	MX	CX	48.0	53.30	58.90	1	77.4	7.8	1
HTSMBJ51A	HTSMBJ51CA	MZ	CZ	51.0	56.70	62.70	1	82.4	7.3	1
HTSMBJ54A	HTSMBJ54CA	NE	DE	54.0	60.00	66.30	1	87.1	6.9	1
HTSMBJ58A	HTSMBJ58CA	NG	DG	58.0	64.40	71.20	1	93.6	6.5	1
HTSMBJ60A	HTSMBJ60CA	NK	DK	60.0	66.70	73.70	1	96.8	6.2	1
HTSMBJ64A	HTSMBJ64CA	NM	DM	64.0	71.10	78.60	1	103.0	5.9	1
HTSMBJ70A	HTSMBJ70CA	NP	DP	70.0	77.80	86.00	1	113.0	5.3	1
HTSMBJ75A	HTSMBJ75CA	NR	DR	75.0	83.30	92.10	1	121.0	5.0	1
HTSMBJ78A	HTSMBJ78CA	NT	DT	78.0	86.70	95.80	1	126.0	4.8	1
HTSMBJ85A	HTSMBJ85CA	NV	DV	85.0	94.4	104.0	1	137.0	4.4	1
HTSMBJ90A	HTSMBJ90CA	NX	DX	90.0	100.0	111.0	1	146.0	4.1	1
HTSMBJ100A	HTSMBJ100CA	NZ	DZ	100.0	111.0	123.0	1	162.0	3.7	1
HTSMBJ110A	HTSMBJ110CA	PE	EE	110.0	122.0	135.0	1	177.0	3.4	1
HTSMBJ120A	HTSMBJ120CA	PG	EG	120.0	133.0	147.0	1	193.0	3.1	1
HTSMBJ130A	HTSMBJ130CA	PK	EK	130.0	144.0	159.0	1	209.0	2.9	1
HTSMBJ150A	HTSMBJ150CA	PM	EM	150.0	167.0	185.0	1	243.0	2.5	1
HTSMBJ160A	HTSMBJ160CA	PP	EP	160.0	178.0	197.0	1	259.0	2.3	1
HTSMBJ170A	HTSMBJ170CA	PR	ER	170.0	189.0	209.0	1	275.0	2.2	1
HTSMBJ180A	HTSMBJ180CA	PT	ET	180.0	201.0	222.0	1	292.0	2.1	1
HTSMBJ190A	HTSMBJ190CA	PA	EC	190.0	209.0	243.0	1	308.0	2.0	1
HTSMBJ200A	HTSMBJ200CA	PV	EV	200.0	224.0	247.0	1	324.0	1.9	1
HTSMBJ210A	HTSMBJ210CA	PB	ED	210.0	231.0	268.0	1	340.0	1.8	1
HTSMBJ220A	HTSMBJ220CA	PX	EX	220.0	246.0	272.0	1	356.0	1.7	1
HTSMBJ250A	HTSMBJ250CA	PZ	EZ	250.0	279.0	309.0	1	405.0	1.5	1
HTSMBJ300A	HTSMBJ300CA	QE	FE	300.0	335.0	371.0	1	486.0	1.3	1
HTSMBJ350A	HTSMBJ350CA	QG	FG	350.0	391.0	432.0	1	567.0	1.1	1
HTSMBJ400A	HTSMBJ400CA	QK	FK	400.0	447.0	494.0	1	648.0	0.9	1
HTSMBJ440A	HTSMBJ440CA	QM	FM	440.0	492.0	543.0	1	713.0	0.9	1
HTSMBJ480A	HTSMBJ480CA	QP	FP	480.0	536.0	593.0	1	750.0	0.8	1
HTSMBJ500A	HTSMBJ500CA	QV	FV	500.0	558.0	618.0	1	762.0	0.8	1
HTSMBJ520A	HTSMBJ520CA	QR	FR	520.0	578.0	640.0	1	762.0	0.8	1
HTSMBJ550A	HTSMBJ550CA	QT	FT	550.0	615.0	680.0	1	860.0	0.7	1

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

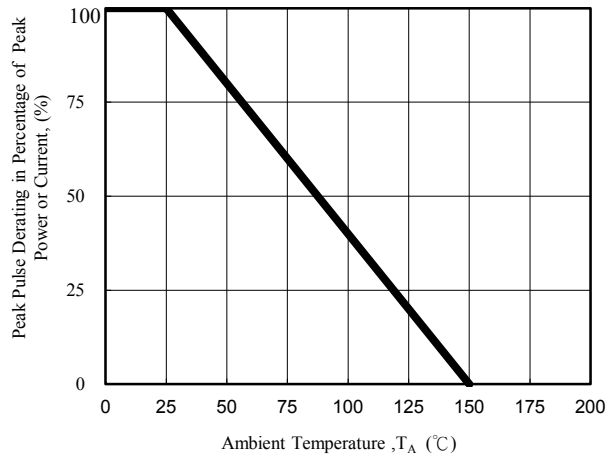


Fig. 1 - Pulse Derating Curve

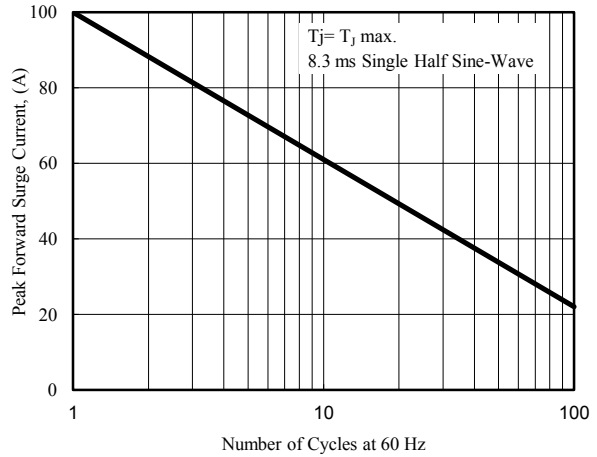


Fig. 2 - Maximum Non-Repetitive Surge Current

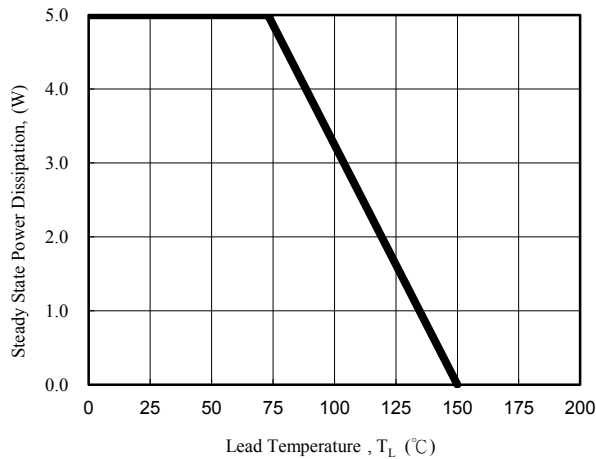


Fig. 3 - Steady State Power Derating Curve

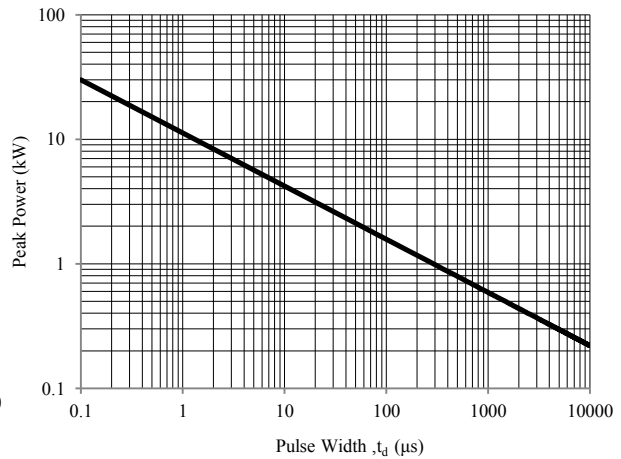


Fig. 4 - Peak Pulse Power Rating Curve

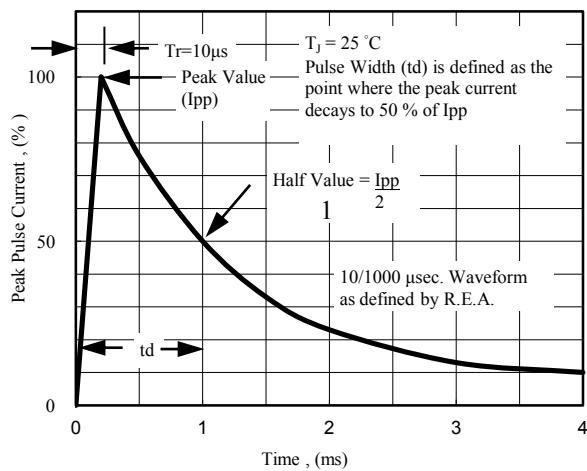


Fig. 5 - Pulse Waveform

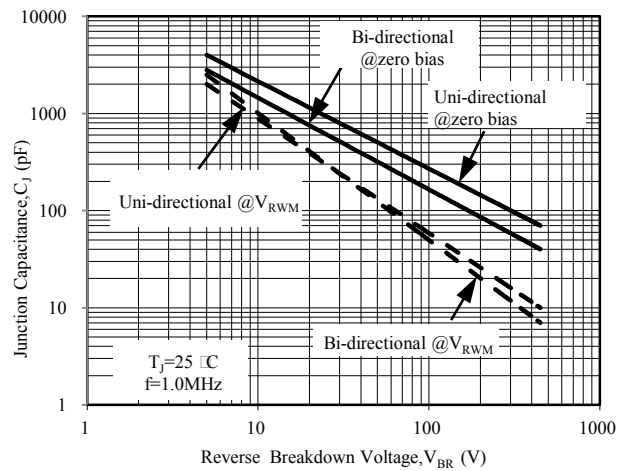


Fig. 6 - Typical Junction Capacitance