

Data Sheet

Customer : _____

Product : Surface Mount Transient Voltage Suppressor Rectifiers _____

Package : DO-214AA/(SMB) _____

Issued Date : 01-Aug.-2026 _____

Edition : Ver. 1 _____

Record of change

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

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,

New Taipei City, TAIWAN, R.O.C.

Tel: +886 2 2299 1331 (Rep.)

Fax: +886 2 2298 2466, 2298 2969

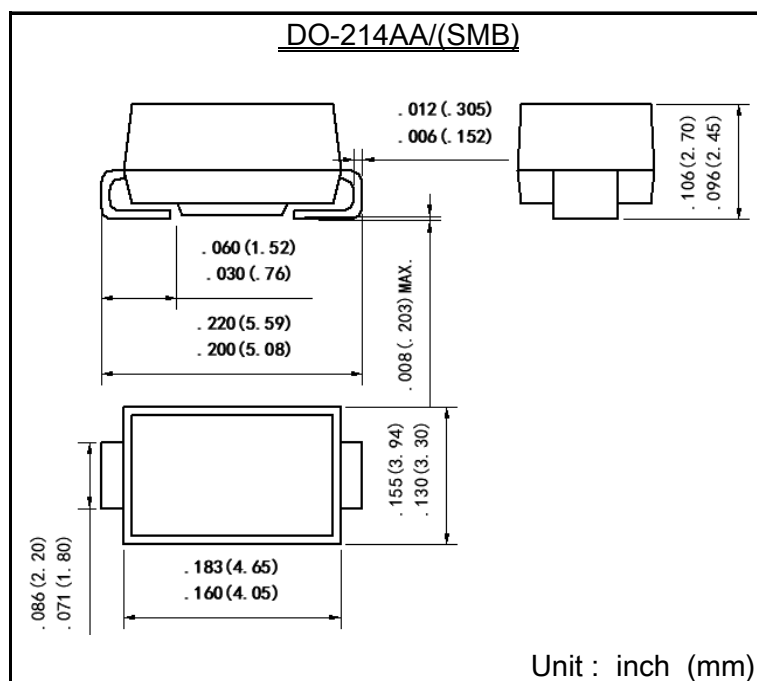
Prepared by	Checked by	Approved by	Accepted by (customer)
01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
<i>Randy Yu</i>	<i>Michelle Lin</i>	<i>Arthur Su</i>	

HTSMB10Jxx(C)A Series

Surface Mount Transient Voltage Suppressor Rectifiers

Reverse Voltage 5.0 ~ 480 V

1000 Watt Peak Pulse Power



Features

- Glass passivated chip
- 1000 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-214AA/(SMB) 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}	1000	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。

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)	$I_T(mA)$	$V_{C MAX.}(V)$	$I_{PP}(A)$	$I_R(\mu A)$
HTSMB10J5.0A	HTSMB10J5.0CA	KKE	KAE	5.0	6.40	7.00	10	9.2	108.83	800
HTSMB10J6.0A	HTSMB10J6.0CA	KKG	KAG	6.0	6.67	7.37	10	10.3	97.17	800
HTSMB10J6.5A	HTSMB10J6.5CA	KKK	KAK	6.5	7.22	7.98	10	11.2	89.33	500
HTSMB10J7.0A	HTSMB10J7.0CA	KKM	KAM	7.0	7.78	8.60	10	12.0	83.33	200
HTSMB10J7.5A	HTSMB10J7.5CA	KKP	KAP	7.5	8.33	9.21	1	12.9	77.67	100
HTSMB10J8.0A	HTSMB10J8.0CA	KKR	KAR	8.0	8.89	9.83	1	13.6	73.67	50
HTSMB10J8.5A	HTSMB10J8.5CA	KKT	KAT	8.5	9.44	10.40	1	14.4	69.50	20
HTSMB10J9.0A	HTSMB10J9.0CA	KKV	KAV	9.0	10.00	11.10	1	15.4	65.00	10
HTSMB10J10A	HTSMB10J10CA	KKX	KAX	10.0	11.10	12.30	1	17.0	58.83	5
HTSMB10J11A	HTSMB10J11CA	KKZ	KAZ	11.0	12.20	13.50	1	18.2	55.00	1
HTSMB10J12A	HTSMB10J12CA	KLE	KBE	12.0	13.30	14.70	1	19.9	50.33	1
HTSMB10J13A	HTSMB10J13CA	KLK	KBG	13.0	14.40	15.90	1	21.5	46.67	1
HTSMB10J14A	HTSMB10J14CA	KLK	KBK	14.0	15.60	17.20	1	23.2	43.17	1
HTSMB10J15A	HTSMB10J15CA	KLM	KBM	15.0	16.70	18.50	1	24.4	41.00	1
HTSMB10J16A	HTSMB10J16CA	KLP	KBP	16.0	17.80	19.70	1	26.0	38.50	1
HTSMB10J17A	HTSMB10J17CA	KLR	KBR	17.0	18.90	20.90	1	27.6	36.33	1
HTSMB10J18A	HTSMB10J18CA	KLT	KBT	18.0	20.00	22.10	1	29.2	34.33	1
HTSMB10J20A	HTSMB10J20CA	KLV	KBV	20.0	22.20	24.50	1	32.4	31.00	1
HTSMB10J22A	HTSMB10J22CA	KLX	KBX	22.0	24.40	26.90	1	35.5	28.17	1
HTSMB10J24A	HTSMB10J24CA	KLZ	KBZ	24.0	26.70	29.50	1	38.9	25.83	1
HTSMB10J26A	HTSMB10J26CA	KME	KCE	26.0	28.90	31.90	1	42.1	23.83	1
HTSMB10J28A	HTSMB10J28CA	KMG	KCG	28.0	31.10	34.40	1	45.4	22.17	1
HTSMB10J30A	HTSMB10J30CA	KMK	KCK	30.0	33.50	36.80	1	48.4	20.67	1
HTSMB10J33A	HTSMB10J33CA	KMM	KCM	33.0	36.70	40.60	1	53.3	18.83	1
HTSMB10J36A	HTSMB10J36CA	KMP	KCP	36.0	40.00	44.20	1	58.1	17.33	1
HTSMB10J40A	HTSMB10J40CA	KMR	KCR	40.0	44.40	49.10	1	64.5	15.50	1
HTSMB10J43A	HTSMB10J43CA	KMT	KCT	43.0	47.80	52.80	1	69.4	14.50	1
HTSMB10J45A	HTSMB10J45CA	KMV	KCV	45.0	50.00	55.30	1	72.7	13.83	1
HTSMB10J48A	HTSMB10J48CA	KMX	KCX	48.0	53.30	58.90	1	77.4	13.00	1
HTSMB10J51A	HTSMB10J51CA	KMZ	KCZ	51.0	56.70	62.70	1	82.4	12.17	1
HTSMB10J54A	HTSMB10J54CA	KNE	KDE	54.0	60.00	66.30	1	87.1	11.50	1
HTSMB10J58A	HTSMB10J58CA	KNG	KDG	58.0	64.40	71.20	1	93.6	10.83	1
HTSMB10J60A	HTSMB10J60CA	KNK	KDK	60.0	66.70	73.70	1	96.8	10.33	1
HTSMB10J64A	HTSMB10J64CA	KNM	KDM	64.0	71.10	78.60	1	103.0	9.83	1
HTSMB10J70A	HTSMB10J70CA	KNP	KDP	70.0	77.80	86.00	1	113.0	8.83	1
HTSMB10J75A	HTSMB10J75CA	KNR	KDR	75.0	83.30	92.10	1	121.0	8.33	1
HTSMB10J78A	HTSMB10J78CA	KNT	KDT	78.0	86.70	95.80	1	126.0	8.00	1
HTSMB10J85A	HTSMB10J85CA	KNV	KDV	85.0	94.4	104.0	1	137.0	7.33	1
HTSMB10J90A	HTSMB10J90CA	KNX	KDX	90.0	100.0	111.0	1	146.0	6.83	1
HTSMB10J100A	HTSMB10J100CA	KNZ	KDZ	100.0	111.0	123.0	1	162.0	6.17	1
HTSMB10J110A	HTSMB10J110CA	KPE	KEE	110.0	122.0	135.0	1	177.0	5.67	1
HTSMB10J120A	HTSMB10J120CA	KPG	KEG	120.0	133.0	147.0	1	193.0	5.17	1
HTSMB10J130A	HTSMB10J130CA	KPK	KEK	130.0	144.0	159.0	1	209.0	4.83	1
HTSMB10J150A	HTSMB10J150CA	KPM	KEM	150.0	167.0	185.0	1	243.0	4.17	1
HTSMB10J160A	HTSMB10J160CA	KPP	KEP	160.0	178.0	197.0	1	259.0	3.83	1
HTSMB10J170A	HTSMB10J170CA	KPR	KER	170.0	189.0	209.0	1	275.0	3.67	1
HTSMB10J180A	HTSMB10J180CA	KPT	KET	180.0	201.0	222.0	1	292.0	3.50	1
HTSMB10J190A	HTSMB10J190CA	KPA	KEC	190.0	209.0	243.0	1	308.0	3.33	1
HTSMB10J200A	HTSMB10J200CA	KPV	KEV	200.0	224.0	247.0	1	324.0	3.17	1
HTSMB10J210A	HTSMB10J210CA	KPB	KED	210.0	231.0	268.0	1	340.0	3.00	1
HTSMB10J220A	HTSMB10J220CA	KPX	KEX	220.0	246.0	272.0	1	356.0	2.83	1
HTSMB10J250A	HTSMB10J250CA	KPZ	KEZ	250.0	279.0	309.0	1	405.0	2.50	1
HTSMB10J300A	HTSMB10J300CA	KQE	KFE	300.0	335.0	371.0	1	486.0	2.17	1
HTSMB10J350A	HTSMB10J350CA	KQG	KFG	350.0	391.0	432.0	1	567.0	1.83	1
HTSMB10J400A	HTSMB10J400CA	KQK	KFK	400.0	447.0	494.0	1	648.0	1.50	1
HTSMB10J440A	HTSMB10J440CA	KQM	KFM	440.0	492.0	543.0	1	713.0	1.50	1
HTSMB10J480A	HTSMB10J480CA	KQP	KFP	480.0	536.0	593.0	1	750.0	1.33	1

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

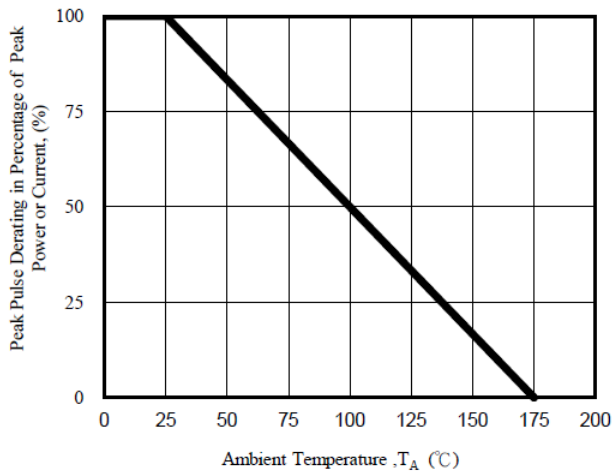


Fig. 1 - Pulse Derating Curve

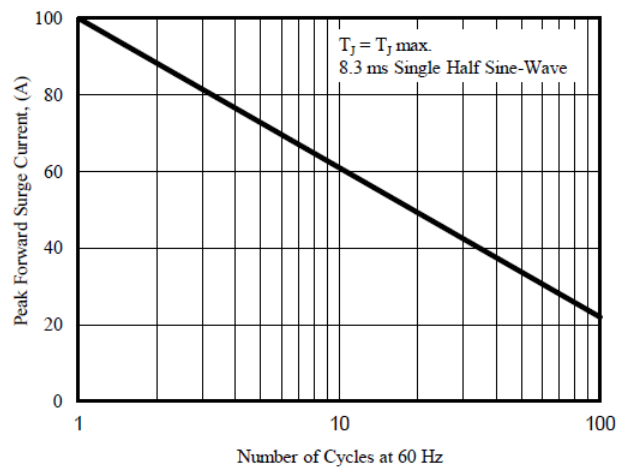


Fig. 2 - Maximum Non-Repetitive Surge Current

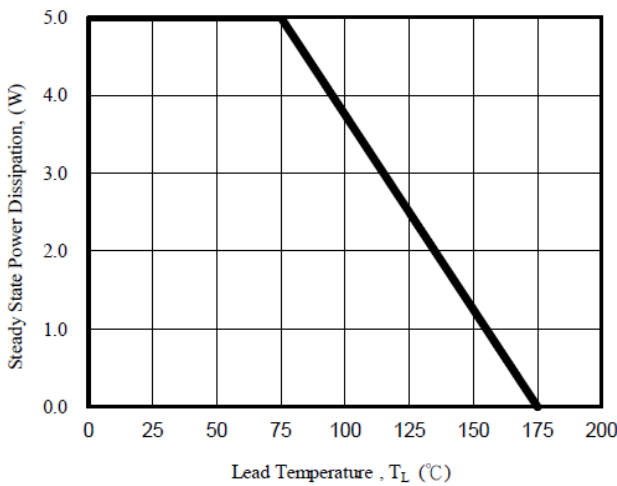


Fig. 3 - Steady State Power Derating Curve

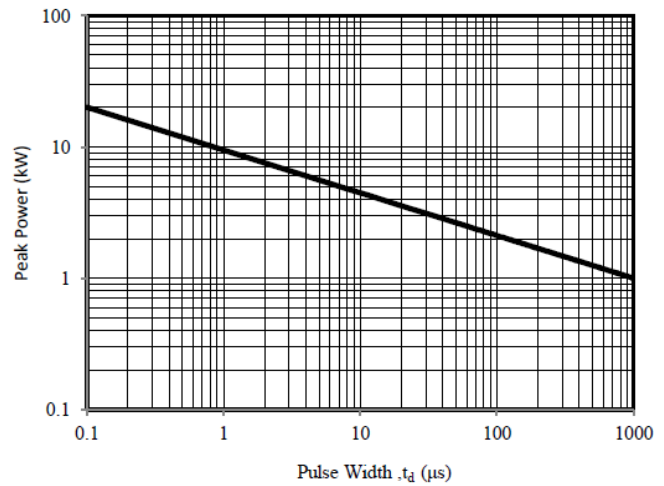


Fig. 4 - Peak Pulse Power Rating Curve

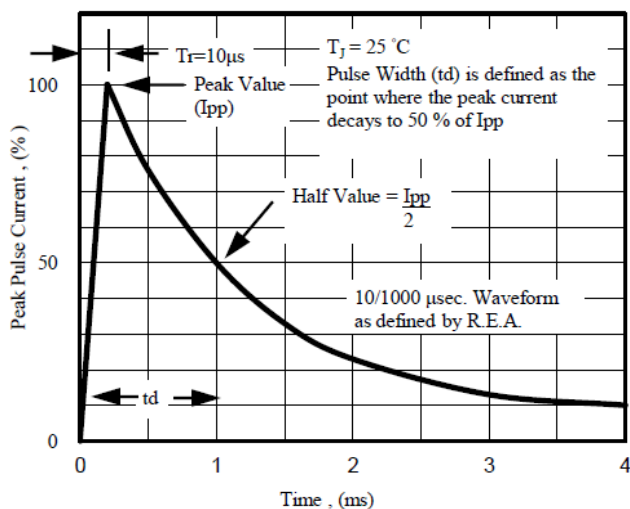


Fig. 5 - Pulse Waveform

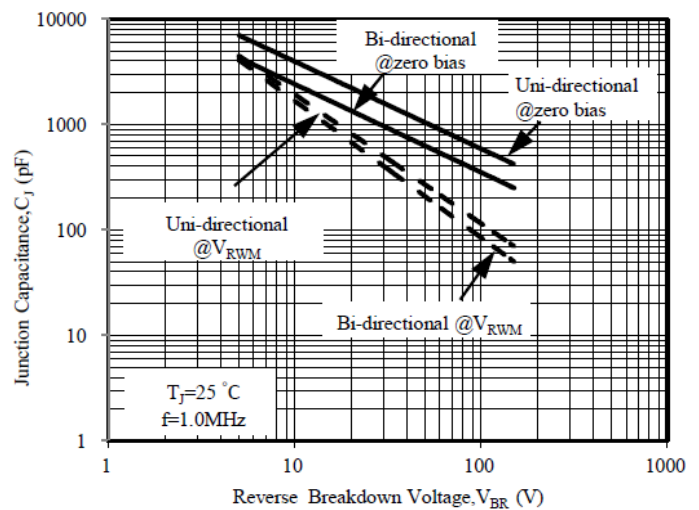


Fig. 6 - Typical Junction Capacitance