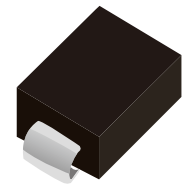
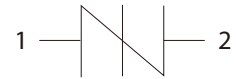


FEATURES

- | Excellent capability of absorbing transient surge
- | Quick response to surge voltage
- | Eliminates over voltage caused by fast rising transients
- | Solid-state silicon technology, non degenerative



SMB(DO-214AA)



Schematic Symbol

APPLICATIONS

- | Audio/Video line
- | Network and telecom
- | Data lines and security systems
- | Serial ports

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

ELECTRICAL CHARACTERISTICS

Part Number	Marking	V_{DRM}	V_S	V_T	I_{DRM}	I_S	I_T	I_H	C_o
		Min. (V)	Max. (V)	Max. (V)	Max. (μ A)	mA	Max. (A)	Min. (mA)	Typ.(pF)
P0060SA	P006A	6	15	4	5	800	2.2	40	50
P0080SA	P008A	6	25	4	5	800	2.2	40	50
P0150SA	P015A	15	25	4	5	800	2.2	40	50
P0300SA	P03A	25	40	4	5	800	2.2	40	70
P0640SA	P06A	58	77	4	5	800	2.2	120	50
P0720SA	P07A	65	88	4	5	800	2.2	120	50
P0900SA	P09A	75	98	4	5	800	2.2	120	45
P1100SA	P11A	90	130	4	5	800	2.2	120	45
P1300SA	P13A	120	160	4	5	800	2.2	120	45
P1500SA	P15A	140	180	4	5	800	2.2	120	40
P1800SA	P18A	170	220	4	5	800	2.2	120	40
P2300SA	P23A	190	260	4	5	800	2.2	120	35
P2600SA	P26A	220	300	4	5	800	2.2	120	35
P3100SA	P31A	275	350	4	5	800	2.2	120	30
P3500SA	P35A	320	400	4	5	800	2.2	120	30
P4200SA	P42A	400	520	4	5	800	2.2	\leq 50	30

SURGE RATINGS

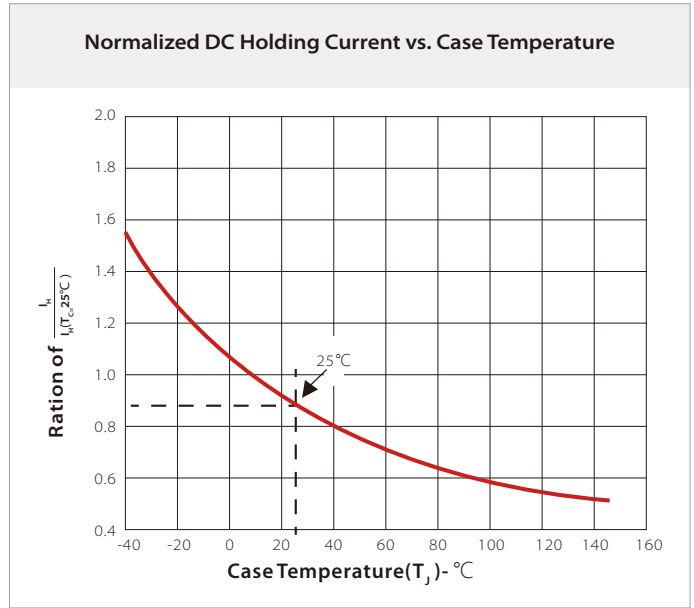
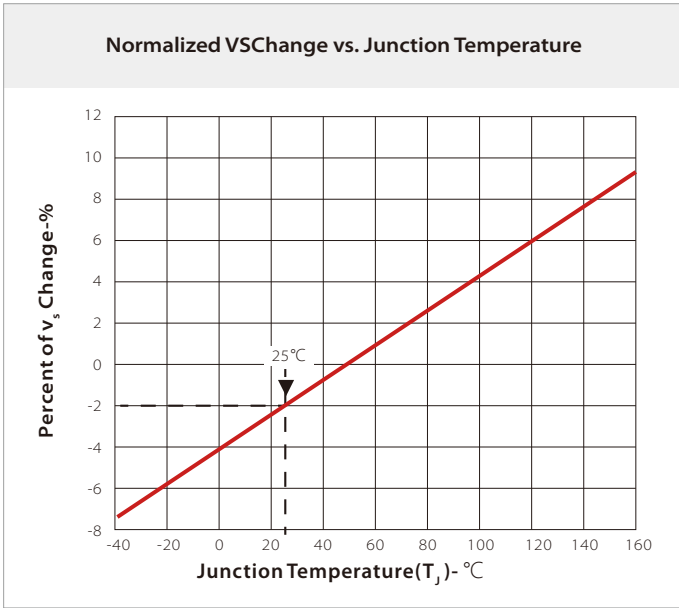
Part Number	I_{PP} 2x10us	I_{PP} 8x20us	I_{PP} 10x560us	I_{PP} 10x1000us	V_{PP} 10x700us	I_{TSM} 60Hz	d_i/d_t
	(A)	(A)	(A)	(A)	(V)	(A)	(A/us)
P0060SA Thru P4200SA	150	150	100	50	3000	20	500

THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	90	°C/W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

RATINGS AND CHARACTERISTIC CURVES ($T_A=25^\circ\text{C}$)



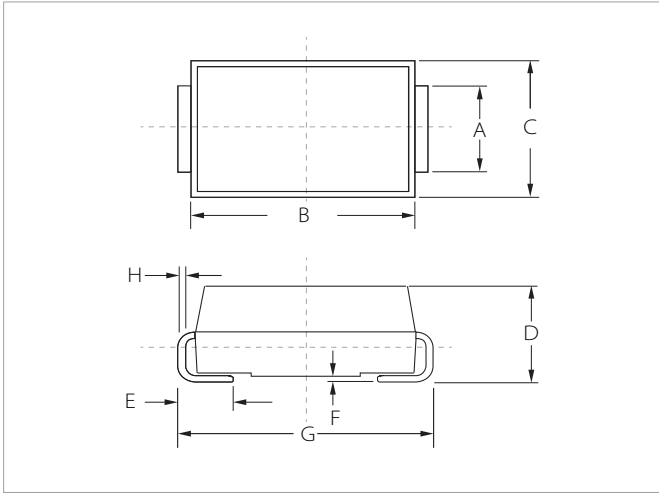


SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max (T _{s(min)})	150°C
	Temperature Max (T _{s(max)})	200°C
	Time (min to max) (t _s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T _L) to peak)		3°C/second max
T _{s(max)} to T _L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T _L) (Liquidus)	217°C
	Time (min to max) (t _r)	60 – 150 seconds
Peak Temperature (T _p)		260°C
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T _p)		8 minutes max.
Do not exceed		260°C

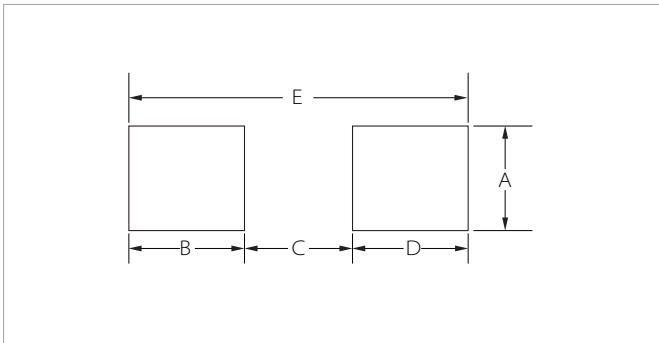


DO-214AA(SMB) PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.80	2.20	0.071	0.087
B	4.30	4.70	0.170	0.185
C	3.40	3.90	0.134	0.153
D	2.15	2.55	0.085	0.100
E	1.00	1.50	0.039	0.059
F	0.02	0.20	0.001	0.008
G	5.10	5.50	0.200	0.216
H	0.15	0.30	0.006	0.012

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.20	-	0.087	-
B	1.45	-	0.057	-
C	-	2.55	-	0.010
D	1.45	-	0.057	-
E	5.60REF		0.220REF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
PxxxxSA	DO-214AA(SMB)	3000PCS	13"

Headquarters

No.3387 Shendu Road Pujiang
I&E Park
Minhang Shanghai China
201000

Hotline

400-021-5756

Web

<https://www.semiware.com>

Sales Center

Tel: 86-21-3463-7458
Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001
Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654
Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

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