

FEATURES

| Excellent capability of absorbing transient surge

| Quick response to surge voltage

| Eliminates over voltage caused by fast rising transients

| Solid-state silicon te chnology, non degenera



SMB(DO-214AA)

Marking



Schematic Symbol

APPLICATIONS

APPROVALS

HF

RoHS Compliance with 2011/65/EU

Compliance with IEC61249-2-21:2003

Δ	Audio/Video line
	letwork and telecom
[Data lines and security systems

| Serial ports

ELECTRICAL CHARACTERISTICS

Part Number	$V_{\scriptscriptstyle DRM}$	V_s	V_{\scriptscriptstyleT}	I _{DRM}	I _s	I _T	I _H	С	o o
rait Nullibel	Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	, , , , , ,	Max.(pF)
P0080SC-MC	6.0	25.0	4.0	5.0	800.0	2.2	40.0	15.0	35.0

SURGE RATINGS

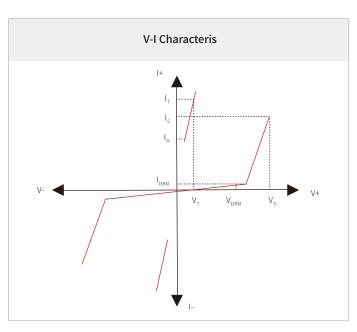
Part Number	Ι _{ΡΡ} 2x10μs	l _{թթ} 8x20μs	Ι _{ΡΡ} 10x560μs	Ι _{ΡΡ} 10x1000μs	V _{PP} 10x700μs	I _{тsм} 50/60Hz	d_{i}/d_{t}
rare warmser	(A)	(A)	(A)	(A)	(V)	(A)	(A/μs)
P0080SC-MC	500	400	150	100	6000	30	500

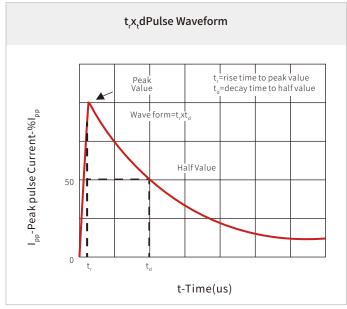


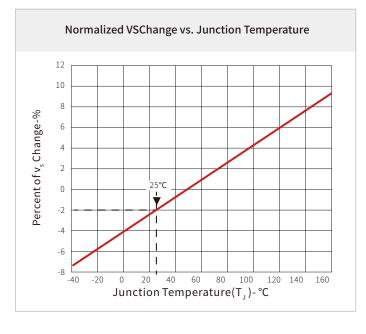
THERMAL CONSIDERATIONS

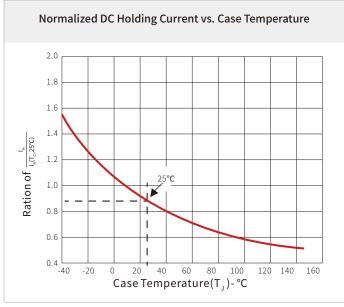
Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	90	°C/W
T _J	Operating Junction Temperature	-55 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

RATINGS AND CHARACTERISTIC CURVES ($T_A = 25$ °C)





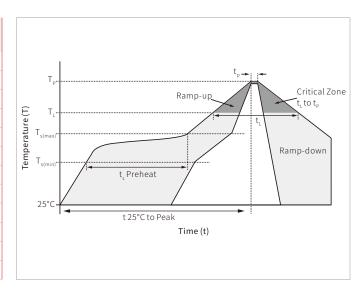




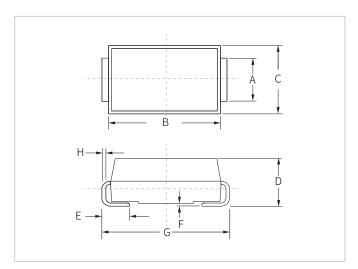


SOLDERING PARAMETERS

	Reflow Condition	Lead-free assembly
	Temperature Max (T _{s(min)})	150°C
Pre Heat	Temperature Max (T _{s(max)})	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average rar	mp 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」) (Liquidus)	217°C
Kellow	Time (min to max) (t₁)	60 – 150 seconds
Peak Ten	nperature (T₅)	260°C
Time with	nin 5°C of actual peak Temperature (t _p)	20 – 40 seconds
Ramp-do	own Rate	6°C/second max
Time 25°	C to peak Temperature (T♭)	8 minutes max.
Do not ex	cceed	260°C



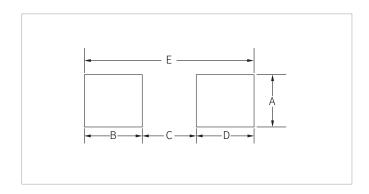
DO-214AA(SMB) PACKAGE INFORMATION



Ref.	Millimeters		Inches	
i.e.i.	Min.	Max.	Min.	Max.
А	1.80	2.20	0.071	0.087
В	4.30	4.70	0.170	0.185
С	3.40	3.90	0.134	0.153
D	2.15	2.75	0.085	0.108
Е	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
Н	0.15	0.30	0.006	0.012



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
inci.	Min.	Max.	Min.	Max.
А	2.20	-	0.087	-
В	1.45	-	0.057	-
С	-	2.55	-	0.010
D	1.45	-	0.057	-
E	5.60	REF	0.22	0REF

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
P0080SC-MC	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

By QR Code





Wehsite

Macha

To find your local partner within Semiware's global website: www.semiware.com © 2022 Semiware Semiconductor Inc.

The content of this document has been carefully checked and understood. However, neither Semiware nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Semiware does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Chinese law and resulting disputes shall be settled by the courts at the place of business of Semiware. Latest publications and a complete disclaimer can be downloaded from the Semiware website. All trademarks recognized.