

FEATURES

| Glass Passivated Die Construction | Fast Recovery Time for High Efficiency | Low reverse leakage | Ideally Suited for Automatic Assembly



MECHANICAL DATA

Case Material: Molded Plastic. UL Flammability Classification			
Rating 94V-0			
Moisture Sensitivity: Level 1 per J-STD-020			

APPROVALS

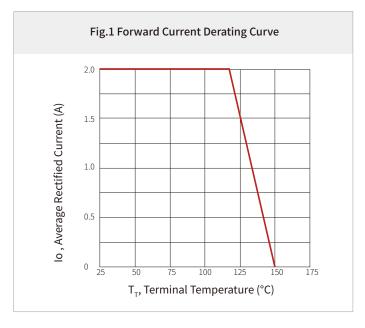
	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

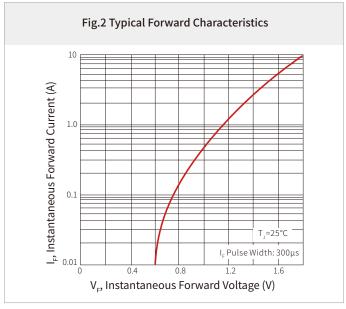
MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

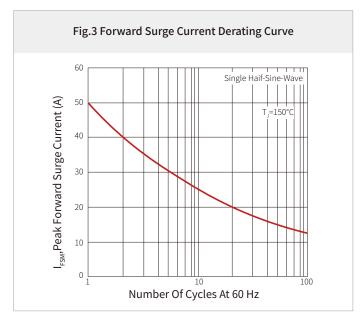
Symbol	Parameter		RS2AA	RS2BA	RS2DA	RS2GA	RS2JA	RS2KA	RS2MA	Unit
	Marking		RS2AA	RS2BA	RS2DA	RS2GA	RS2JA	RS2KA	RS2MA	
V _{RRM}	Maximum repetitive peak revers	se voltage	50	100	200	400	600	800	1000	
V_{RMS}	Maximum RMS voltage	2	35	70	140	280	420	560	700	V
V _{DC}	Maximum DC blocking volt	tage	50	100	200	400	600	800	1000	
I _{F(AV)}	Maximum average forward rectif	ied current			I	2.0)			Λ
I _{FSM}	Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave					50				А
$R_{\theta JA}$	Typical thermal resistance (Note 1)					86				00/11
$R_{\theta JL}$	R _{BJL} Typical thermal resistance (Note 1)					14				°C/W
	Maximum reverse current	T _J =25°C				5				
I _R	@rated V _R per diode (Note2)	T _J =125°C				10)			μΑ
V _F	Maximum forward voltage I _F =2A, T __ =25°C(Note1)					1.3	3			V
t _{rr}	Maximum reverse recovery time @I _F =0.5A,I _R =1.0A,I _{RR} =0.25A			1	150		250	5	00	μs
T _J	Operating junction temperature rang					-55~+	150			°C
T_{STG}	Storage temperature rang					-55~+	150			°C

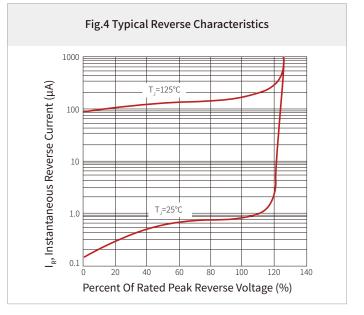
Note 1: Pulse test with PW=0.3mS Note 2: Pulse test with PW=30mS

CHARACTERISTIC CURVES





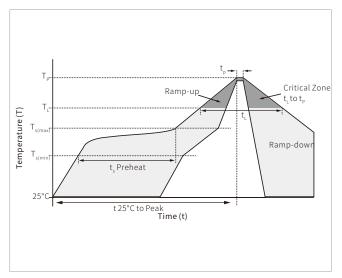




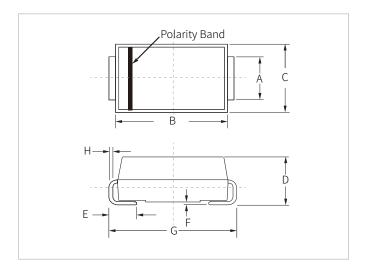


SOLDERING PARAMETERS

	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 ran	Average ramp up rate (Liquidus Temp (T _L) to peak			
	T _{s(max)} to T _L - Ramp-up Rate			
Reflow	Temperature (T _L) (Liquidus)	217°C		
Reliow	Time (min to max) (t _L)	60 – 150 seconds		
Peak Temperature (T _P)		260°C		
Time within	20 – 40 seconds			
Ramp-dow	6°C/second max			
Time 25°C t	8 minutes max.			
Do not exce	260°C			



DO-214AC(SMA) PACKAGE INFORMATION

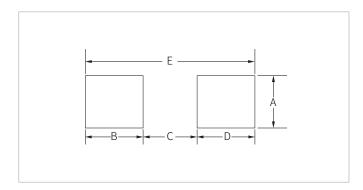


Ref.	MILLIIM	ieters	inches	
itel.	Min.	Max.	Min.	Max.
А	1.20	1.60	0.047	0.063
В	4.20	4.60	0.165	0.181
С	2.40	2.80	0.094	0.110
D	2.00	2.40	0.079	0.094
E	0.76	1.52	0.030	0.060
F	0.02	0.20	0.001	0.008
G	4.85	5.25	0.191	0.207
Н	0.15	0.30	0.006	0.012





RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millin	neters	Inches		
itel.	Min.	Max.	Min.	Max 0.090	
А	1.63	-	0.064	-	
В	1.45	-	0.057	-	
С	-	2.80	-	0.090	
D	1.45	-	0.057	-	
Е	5.28REF		0.20	8REF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
RS2AA-RS2MA	DO-214AC(SMA)	5000PCS	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





Website

Machai

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.