

FEATURES

| For Surface Mounted Applications | Built-in Strain Relief,ideal For Automated Placement | Low Reverse Leakage

| High Forward Surge Current Capability

Terminals





MECHANICAL DATA

Case: Molded Plastic Body
Polarity: Polarity Symbol Marking On Body
Mounting Position: Any

APPROVALS

RoHS Compliance with 2011/65/EU

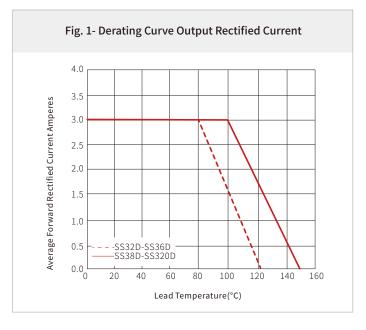
HF Compliance with IEC61249-2-21:2003

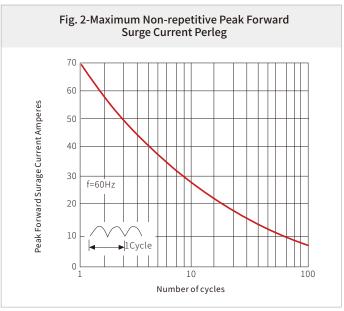
MAXIMUM RATINGS ($T_A = 25$ °C)

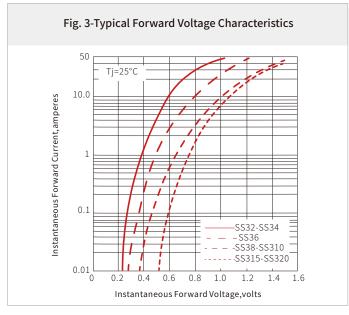
Parameter		Symbol	SS32D	SS34D	SS36D	SS38D	SS310D	SS315D	SS320D	Unit
Marking			D32	D34	D36	D38	D310	D315	D320	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current at T _L =100°C		I _{F(AV)}	3.0						А	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load		I _{FSM}	70						А	
Maximum Instantaneous Forward Voltage at 3.0A		V _F	0.55 0.70 0.85 0.95		15	V				
Maximum DC Reverse Current	T _A =25°C		0.2 0.05					mA		
at Rated DC Blocking Voltage	T _A =100°C	- I _R	20			5			mA	
Typical Thermal Resistance		$R_{\theta JA}$	85						°C/W	
Operating Junction Temperature Range		T _J	-55 to +125 -55 to +150				°C			
Storage Temperature Range		T_{STG}	-55 to +150						°C	

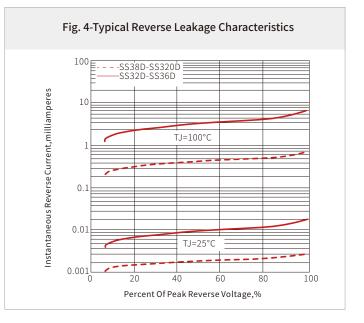


CHARACTERISTIC CURVES





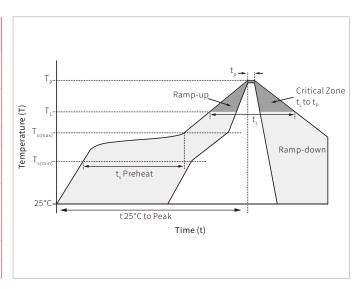




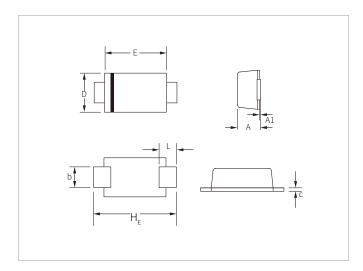


SOLDERING PARAMETERS

	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) (t₋)	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 (T₅)	8 minutes max.		
Do not ex	cceed	260°C		



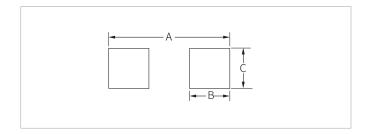
SOD-123FL PACKAGE INFORMATION



Ref.	Millim	neters	Inches			
itel.	Min.	Max.	Min.	Max.		
А	0.95	1.45	0.037	0.057		
A1	0.00	0.10	0.000	0.004		
b	0.70	1.20	0.028	0.047		
С	0.05	0.30	0.002	0.012		
D	1.50	2.00	0.059	0.079		
E	2.50	2.90	0.098	0.114		
L	0.35	0.90	0.014	0.035		
H _E	3.40	3.90	0.134	0.154		



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches		
А	4.20	0.165		
В	1.50	0.059		
С	1.20	0.047		

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SS32D-SS320D	SOD-123FL	3000PCS	7"



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.