

FEATURES

Low Forward Voltage Drop Peak reverse voltage: 30V Low reverse leakage







APPLICATION

| Reverse protection Diode

Switching Diode

| Clamping protection

APPROVALS

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

MAXIMUM RATINGS ($T_A = 25$ °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{\rm RM}$	30	V
Average rectified forward current	I _{FO}	100	mA
Junction Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-40 to +125	°C

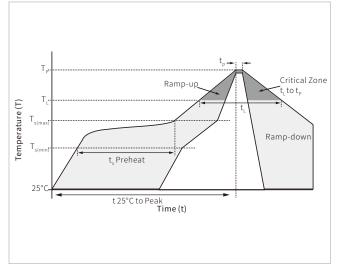


ELECTRICAL CHARACTERISTICS($T_A = 25$ °C)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Reverse Voltage	V_R	I _R =50μA	30			V
Reverse Current	l _R	V _R =10V			0.3	μΑ
		V _R =30V			20	
Famuard Valtaga	V _F	I _F =10mA		0.40	0.45	V
Forward Voltage	v _F	I _F =100mA		0.5	0.65	V

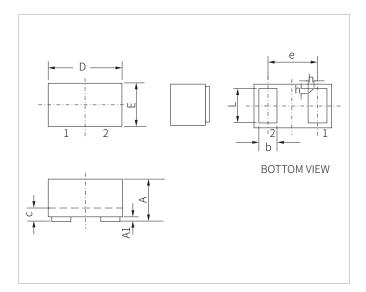
SOLDERING PARAMETERS

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 ran	np 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_L)	60 – 150 seconds	
Peak Temp	erature (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	



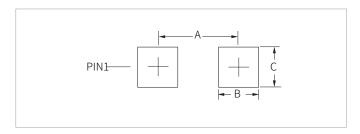


DFN0603 PACKAGE INFORMATION



Ref.	Millimeters		Inches		
Kei.	Min.	Max.	Min.	Max.	
А	0.28	0.36	0.011	0.014	
A1	0	0.05	0	0.002	
b	0.13	0.24	0.005	0.009	
С	0.05	0.15	0.002	0.006	
D	0.55	0.70	0.022	0.028	
е	0.35BSC		0.01	4BSC	
E	0.25	0.35	0.010	0.014	
L	0.20	0.30	0.008	0.012	
h	0	0.10	0	0.004	

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches
А	0.38	0.015
В	0.23	0.009
С	0.30	0.012

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SBD0130V06	DFN0603	10000PCS	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





Website

Machat

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.