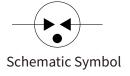


FEATURES

| Surface Mounting Design 3.2*1.6*1.6mm | High Current Handling Capability 500A @ 8/20 μs | Low Capacitance and Insertion Loss | Quick Response and Long Service Life | Moisture sensitivity level: Level 1





APPLICATION INFORMATION

Communication equipment.
Repeaters, Modems
Telephone Interface,Line cards.
Data communication equipment.

AGENCY APPROVALS

Icon	Solderability	
RoHS	Compliance with 2011/65/EU	
HF	Compliance with IEC61249-2-21:2003	
P	Mean lead free	
R .	UL Certificated E505857	

PRODUCT CHARACTERISTICS

Lead Material	Body Material	Terminal Finish
Copper or Fe-Ni alloy	Ceramics	100% Matte-Tin Plated



ELECTRICAL PARAMETER

Parameter	Condition	Rating	Unit
DC Blocking Voltage 1)	100V/s	210-390	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 950	V
	At 1kV/μs	Typical values of distribution ≤ 900	V
Impulse Discharge Current 2)	8/20µs	500	А
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V ≤ 0.6		pF
Operating And Storage Temperature		-40-125	°C

ENVIRONMENTAL RELIABILITY CHARACTERISTICS

Testing items	Technical standards
High Temperature Storage Test Temperature: 85°C; Time:2H	
Low Temperature Storage Test	Temperature: -40°C; Time:2H
Vibration Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time: 45min	
Resistance of soldering heat	Temperature:260°C;Time of dip soldering :10s,1time

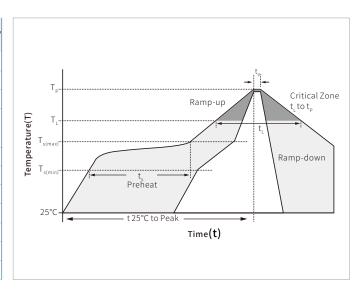
NOTE:Up-screen program can be specified by customer's request via contacting Semiware service

¹⁾ In ionized mode 2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21 $\,$

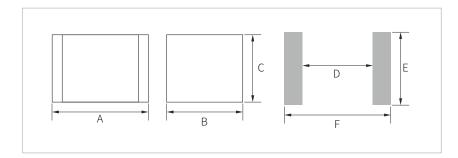


REFLOW PROFILE

	Reflow Condition	Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ra	mp up rate (Liquidus) Temp (T_L) to peak $T_s(max)$ to T_L - Ramp-up Rate	3°C/second max
Defless	Temperature (T _.) (Liquidus)	217°C
Reflow	Time (min to max) (t_L)	60 – 150 seconds
Peak Tem	nperature (T₅)	260°C
Time with	iin 5°C of actual peak Temperature (tp)	10 – 30 seconds
Ramp-do	own Rate	6°C/second max
Time 25°	C to peak Temperature (T₅)	8 minutes max.
Do not exceed		260°C



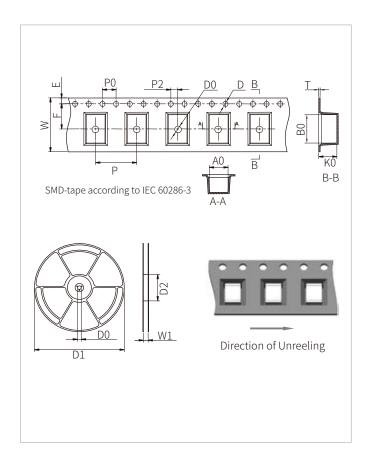
PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref. mm		
А	3.2±0.3mm	
В	1.6±0.3mm	
С	1.6±0.3mm	
D	2.0mm	
Е	1.8mm	
F	4.0mm	



TAPE AND REEL SPECIFICATION



Dim Ref.		mensions
Kei.	Millimeters	Inches
W	12±0.3	0.472±0.012
A0	2.8±0.1	0.110±0.004
В0	3.5±0.1	0.138±0.004
K0	2.8±0.1	0.110±0.004
Р	8.0±0.1	0.315±0.004
F	5.5±0.1	0.217±0.004
E	1.75±0.1	0.069±0.004
D	1.5+0.1/-0.0	0.059+0.004/-0.0
P0	4±0.1	0.157±0.004
P2	2±0.1	0.079±0.004
Т	0.35±0.05	0.014±0.002
D0	13.3±0.15	0.524±0.006
D1	330±2	12.992±0.079
D2	100+1/-2	3.937+0.039/-0.079
W1	12.5±0.4	0.492±0.016

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
BS301N-SW	3.2*1.6*1.6mm	3000PCS	13"





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