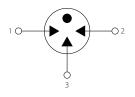


FEATURES

Size Design 5.0*5.0*7.5mm	
High Current Handling Capability 10000A @ 8/20 μs	
Low Capacitance and Insertion Loss	
Quick Response and Long Service Life	
Moisture sensitivity level: Level 1	



5.0*5.0*7.5mm



Schematic Symbol

APPLICATION INFORMATION

High Reliability and Automobile Grade(AEC-Q200)

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

AGENCY APPROVALS

lcon	Solderability
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
®	Mean lead free
<i>IR</i> .	UL Certificated E505857

PRODUCT CHARACTERISTICS

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



ELECTRICAL PARAMETER

Parameter	Symbol	Rating	Unit
DC Blocking Voltage 1)	100V/s	72-108	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤600	V
	At 1kV/μs	Typical values of distribution ≤500	V
Impulse Discharge Current 2)	8/20µs	10	KA
Insulation Resistance	DC=50V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 1	рF
Operating and Storage Temperature		-40~90	°C

¹⁾ In ionized mode

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	

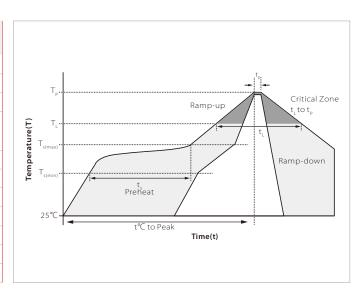
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

²⁾ Terms and waveforms in accordance with ITU-T Rec. K. 12; IIEC 61643-311

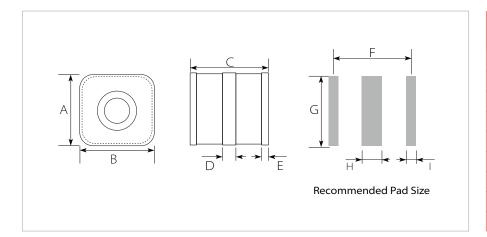


REFLOW PROFILE

Reflow Condition		Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60~180 secs	
Average ra	amp up rate (Liquidus) $Temp(T_L)$ to peak	3°C/second max	
	T_s (max)to T_L - Ramp-up Rate		
Reflow	Temperature (T_L) (Liquidus)	217℃	
Kellow	Time(min to max)(t_s)	60~150 seconds	
Peak Temperature (T _p)		260°C	
Time within 5°C of actual peak Temperature (tp)		20~40 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T♭)		8 minutes max.	
Do not exceed		260°C	



PRODUCT DIMENSIONS

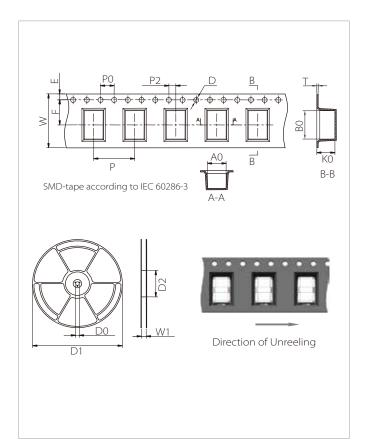


Ref.	
Kei.	Millimeters
А	5.0±0.2
В	5.0±0.2
С	7.5±0.3
D	1.5±0.3
E	0.5±0.2
F	6.4
G	5.5
Н	2.8
I	1.6

Outline Dimensions



TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
кет.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
BO	8.4±0.1	0.331±0.004	
K0	5.3±0.1	0.209±0.004	
Р	12±0.1	0.472±0.004	
F	7.5±0.1	0.295±0.004	
E	1.75±0.1	0.069±0.004	
D	1.5+0.1/-0.0	0.059+0.004/-0.0	
PO	4±0.1	0.157±0.004	
P2	2±0.1	0.079±0.004	
Т	0.4±0.1	0.016±0.004	
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	16.5±0.4	0.65±0.016	

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
TPSG3D05B090B	5.0*5.0*7.5mm	1000PCS	13"



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