

Product data sheet

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Semiconductor Co



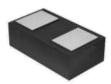
Features

Capacitance: 15pF(typ.) Reverse Working Voltage: 5V IEC 61000-4-2 (ESD Air): ±25KV IEC 61000-4-2 (ESD Contact): ±25KV IEC 61000-4-5 (Lightning 8/20µs): 8A

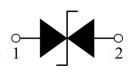
Applications

Smart Phone and Tablet PC TV and Set Top Box Wearable Devices PDA

Pin Description



Schematic Diagram



Limiting Values(T_A = 25 °C, unless otherwise specified)

Symbol	Parameter	Conditions		Мах	Unit
V _{ESD}	Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge		±25	kV
		IEC 61000-4-2; Air Discharge	-	±25	kV
P _{PP}	Peak Pulse Power	t _P = 8/20 μs	-	80	W
Іррм	Rated Peak Pulse Current	t _P = 8/20 μs	-	8	Α
TA	Ambient Temperature Range	-	-55	125	°C
T _{stg}	Storage Temperature Range	-	-55	150	°C

Electrical Characteristics(T_A = 25 °C, unless otherwise specified)

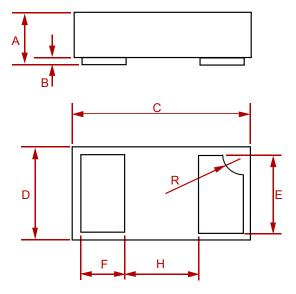
Symbol	Parameter	Conditions	Min	Тур.	Мах	Unit
V _{RWM}	Reverse Working Voltage	T _A = 25 °C	-	-	5.0	V
V _{BR}	Breakdown Voltage	I _R = 1mA; T _A = 25 °C	5.6	6.5	8.4	V
I _R	Reverse Leakage Current	V _{RWM} = 5V; T _A = 25 °C	-	-	0.1	μA
Vc	Clamping Voltage	I _{PP} =1A, t _P =8/20μs	-	-	6	V
		I _{PP} =8A, t _P =8/20μs	-	-	10	V
CJ	Junction Capacitance	V _R = 0V, f = 1 MHz	-	15	18	pF



ESD9B5.0ST5G-MS

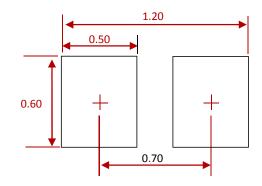
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PACKAGE MECHANICAL DATA



Dire	Inches		Millimeters		
Dim	MIN	MAX	MIN	МАХ	
А	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
н	0.015Typ.		0.40Тур.		
R	0.001	0.005	0.05	0.15	

Suggested Pad Layout



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
ESD9B5.0ST5G-MS	DFN1006-2L	10000





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