



Product data sheet

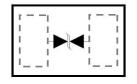
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PIN CONFIGURATION





DFN1006-2L

Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Features

- Small Body Outline Dimensions
- Low Body Height
- Peak Power up to 85 Watts @ 8 x 20 μs
 Pulse
- Low Leakage current
- Response Time is Typically < 1 ns
- We declare that the material of product compliance with RoHS requirements.

Absolute Ratings (T_{amb}=25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power ($t_p = 8/20 \ \mu \ s$)	85	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +155	°C
T _{op}	Operating Temperature Range	-40 to +150	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge	±30	
	contact discharge	±30	KV

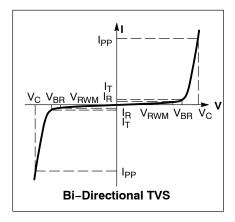




Electrical Parameter

(T_A = 25° C unless otherwise noted)

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
V _C	Clamping Voltage @ I _{PP}			
V _{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
V_{BR}	Breakdown Voltage @ I _T			
Ι _Τ	Test Current			
P _{pk}	Peak Power Dissipation			
С	Capacitance @ $V_R = 0$ and f = 1.0 MHz			

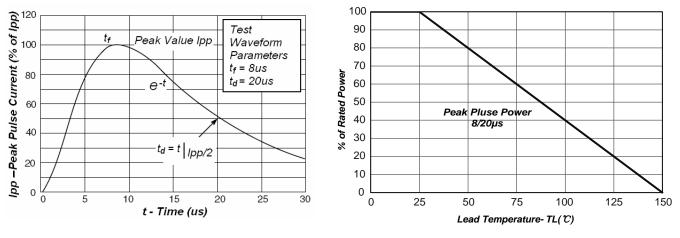


Electrical Characteristics

D/N	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}		/) @ I _T te 1)	ΙŢ	V _C (V) @ I _{PP} = 1 A	V _C (V) @ I _{PP} = 8 A	I _{PP} (A)	P _{PK} (W)	C (pF)
P/N	Мах	Max	Min	Max	mA	Мах	Max	Max	Мах	Мах
ESD9N5V-MS	5.0	0.5	5.6	8	1.0	8.5	9	10	85	20

*Surge current waveform per Figure 1.

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25° C.



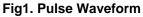


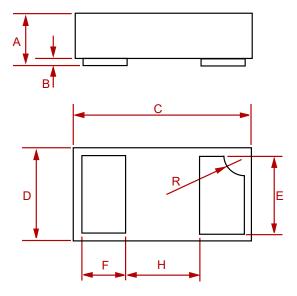
Fig2.Power Derating Curve



ESD9N5V-MS HF Semiconductor Compiance

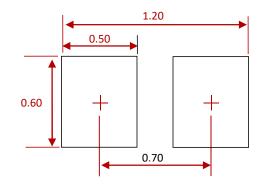
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PACKAGE MECHANICAL DATA



Dim	Inc	hes	Millimeters		
Dim	MIN MAX		MIN	МАХ	
A	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	0.01	5Тур.	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
ESD9N5V-MS	DFN1006-2L	10000



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