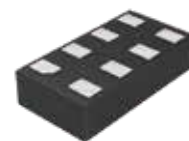


FEATURES

- | 70 Watts Peak Pulse Power per Line (tp=8/20μs)
- | Protects Four 10/100/1000 Ethernet Lines
- | Low Clamping Voltage

APPLICATIONS

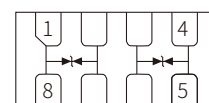
- | 10/100/1000 Ethernet
- | Integrated magnetics/RJ-45 connectors
- | LAN/WAN Equipment
- | Security Cameras
- | Industrial Controls
- | Peripherals
- | Notebooks & Desktop Computers



DFN2010-8L

25T8

Marking



Schematic Symbol

IEC COMPATIBILITY

- | IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- | IEC61000-4-4 (EFT) 40A (5/50ns)

APPROVALS

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

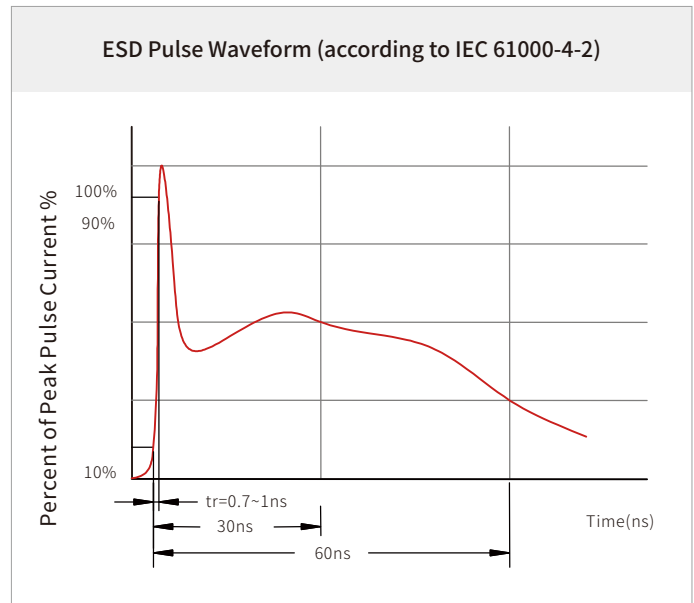
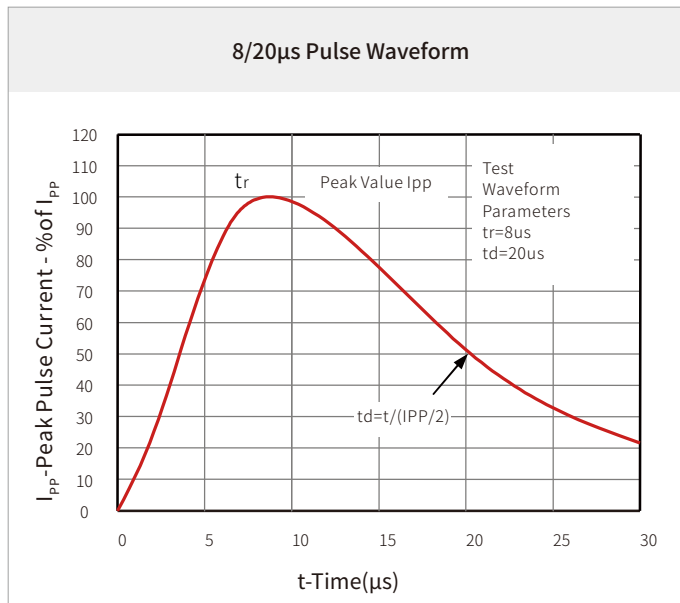
THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
P_{PP}	Peak Pulse Power (tp=8/20μs waveform)	70	Watts
T_J	Operating Temperature Range	-40 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

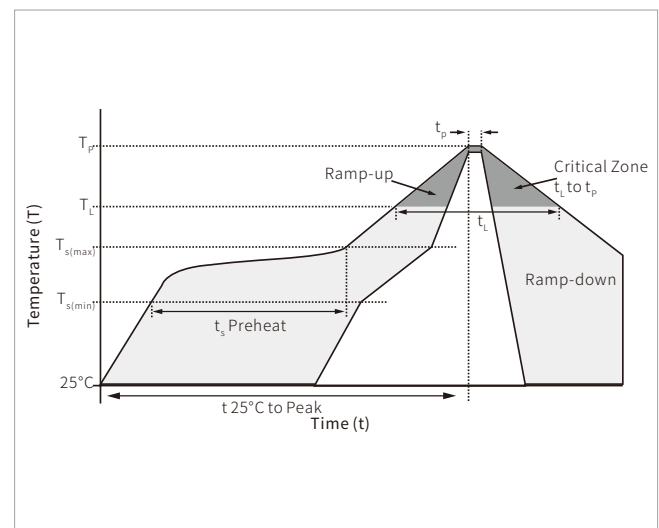
Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
V_{RWM}	Reverse Stand-off Voltage				2.5	V
V_{BR}	Reverse Breakdown Voltage	$I_T=1mA$	2.57			V
I_R	Reverse Leakage Current	$V_{RWM}=2.5V$			0.1	μA
V_C	Clamping Voltage	$I_{PP}=1A, tp=8/20μs$			3.8	V
V_C	Clamping Voltage	$I_{PP}=5A, tp=8/20μs$			5.8	V
V_C	Clamping Voltage	$I_{PP}=10A, tp=8/20μs$			7	V
I_{PP}	Peak Pulse Current	tp=8/20μs			10	A
C_J	Off State Junction Capacitance	$V_R=0V, f=1MHz$		12		pF

CHARACTERISTIC CURVES

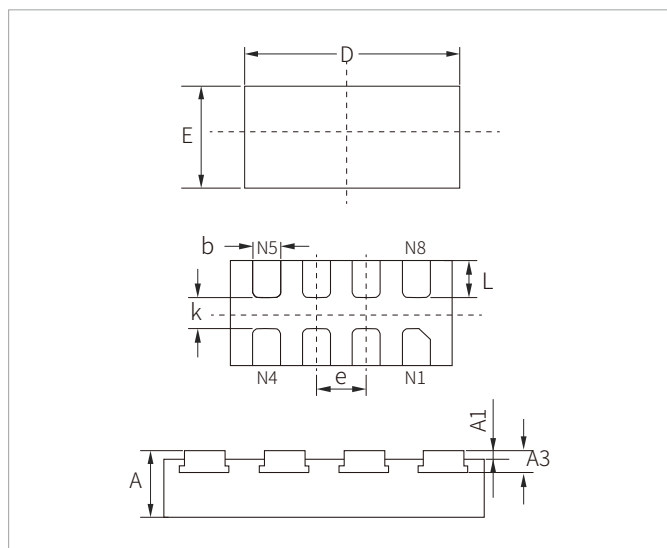


SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ramp 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 Temperature (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

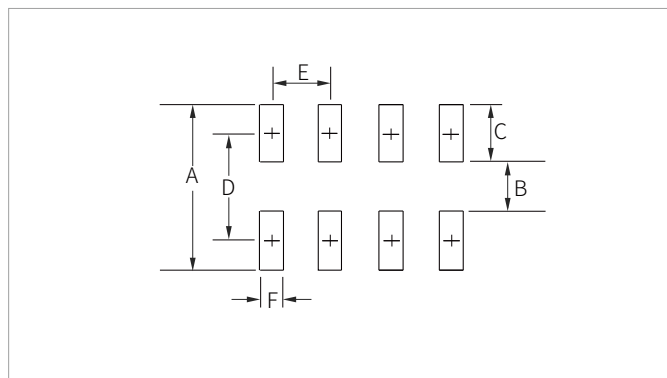


DFN2010-8L PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.320	0.400	0.013	0.016
A1	0.000	0.046	0.000	0.002
A3	0.110REF		0.004REF	
D	1.900	2.100	0.075	0.083
E	0.900	1.100	0.035	0.043
k	0.300REF		0.012REF	
b	0.200	0.300	0.008	0.012
e	0.500TYP		0.020TYP	
L	0.274	0.426	0.011	0.017

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches
A	1.55	0.061
B	0.25	0.010
C	0.65	0.026
D	0.90	0.035
E	0.50	0.020
F	0.30	0.012

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE20F07B2.5A	DFN2010-8L	3000PCS	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



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