

FEATURES

- | 100W Peak Pulse Power per Line (tp=8/20μs)
- | Protects four I/O lines
- | Operating voltage: 5 V

APPLICATIONS

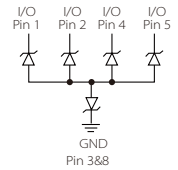
- | High Definition Multi-Media Interface (HDMI)
- | Digital Visual Interface (DVI)
- | MDDI Ports
- | PCI Express
- | Serial ATA
- | 10/100/1000 Ethernet



DFN2510-10L

0544

Marking



Schematic Symbol

IEC COMPATIBILITY

- | IEC61000-4-2 (ESD) ±25kV (air), ±22kV (contact)
- | IEC61000-4-4 (EFT) 40A (5/50ns)

APPROVALS

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

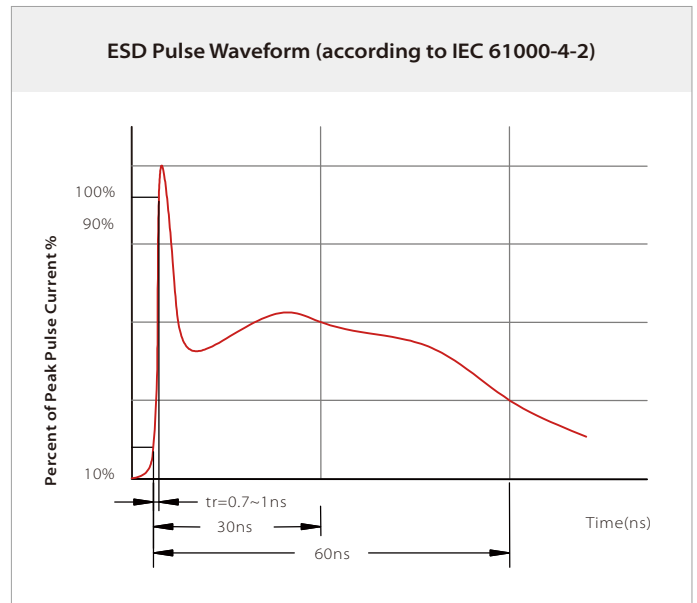
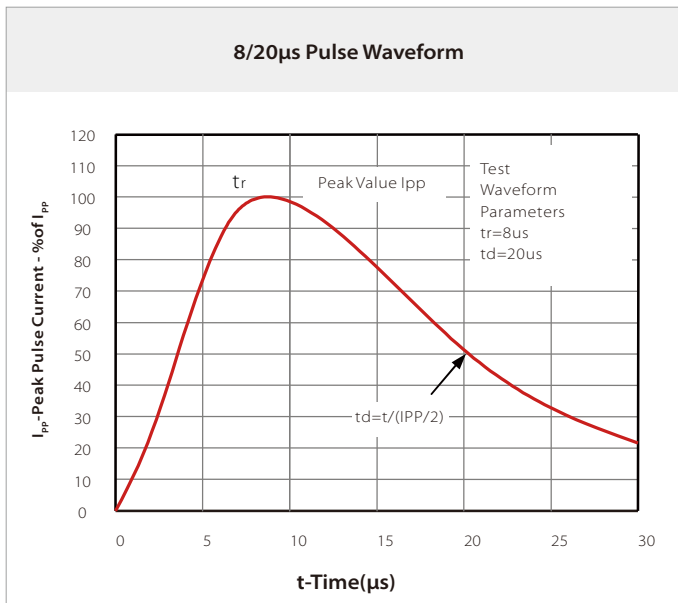
THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
P_{PP}	Peak Pulse Power (tp=8/20μs waveform)	100	Watts
T_J	Operating Temperature Range	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

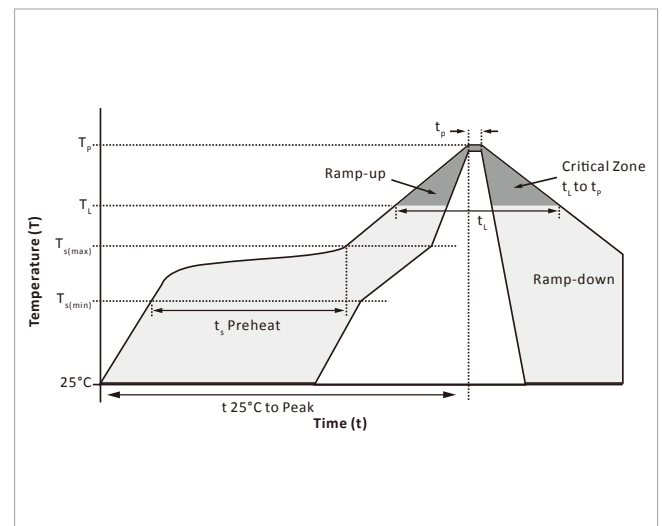
Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
V_{RWM}	Reverse Stand-off Voltage				5	V
V_{BR}	Reverse Breakdown Voltage	$I_T=1mA$	6			V
I_R	Reverse Leakage Current	$V_{RWM}=5V$			0.2	μA
V_C	Clamping Voltage (Tp=8/20us)	$I_{pp}=1A, tp=8/20us$			12.5	V
V_C	Clamping Voltage (Tp=8/20us)	$I_{pp}=4A, tp=8/20us$			25	V
I_{pp}	Peak Pulse Current (Tp=8/20us)	tp=8/20us			4	A
C_J	Off State Junction Capacitance	$V_R=0V, f=1MHz$		0.15	0.3	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



ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE21T10B5.0MA	DFN2510-10L	3000PCS	7"

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By QR Code

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