

Features

- Uni-directional ESD protection of four lines
- 120W Peak pulse Power (8/20us)
- Working voltage: 3.3V
- Junction Capacitance: 0.3pF(Typ) I/O to I/O
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 12\text{kV}$ contact $\pm 17\text{kV}$ air
- IEC 61000-4-5 (Lightning) 8A (8/20 μs)
- IEC 61000-4-4 (EFT) 40A (5/50ns)

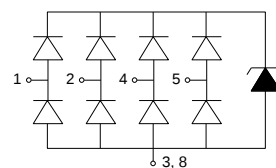
Applications

- HDMI/USB2.0
- Monitors and flat panel displays
- 10/100/1000 ethernet
- Notebook computers
- SIM ports
- ATM interface

Mechanical Data

- Package:DFN2510-10L
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

Schematic & PIN Configuration



Ordering Information

Part Number	Package	Marking	Packing	Reel Size
PUSB3FR4Z	DFN2510-10L	3324P	3000 Tape & Reel	7 inches

Absolute Maximum Rating($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

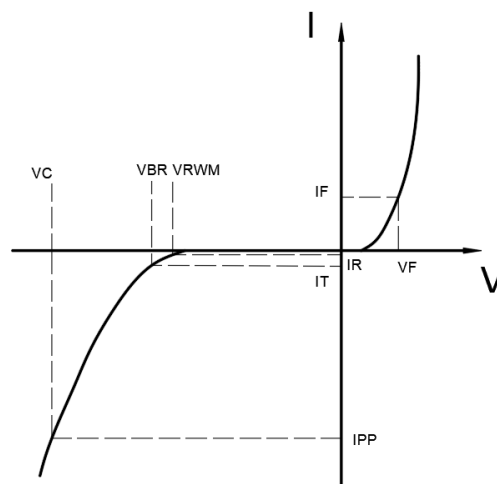
Parameters	Symbol	Min.	Max.	Unit
Peak pulse power ($t_p=8/20\mu\text{s}$)@ 25°C	Ppk	-	120	W
Peak pulse current ($t_p=8/20\mu\text{s}$)@ 25°C	IPP		8	A
ESD (IEC61000-4-2 air discharge) @ 25°C	VESD	-	17	kV
ESD (IEC61000-4-2 contact discharge) @ 25°C	VESD	-	12	kV
Junction temperature	TJ	-	150	$^{\circ}\text{C}$
Operating temperature	TOP	-40	125	$^{\circ}\text{C}$
Storage temperature	TSTG	-55	150	$^{\circ}\text{C}$
Lead temperature	TL	-	260	$^{\circ}\text{C}$

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

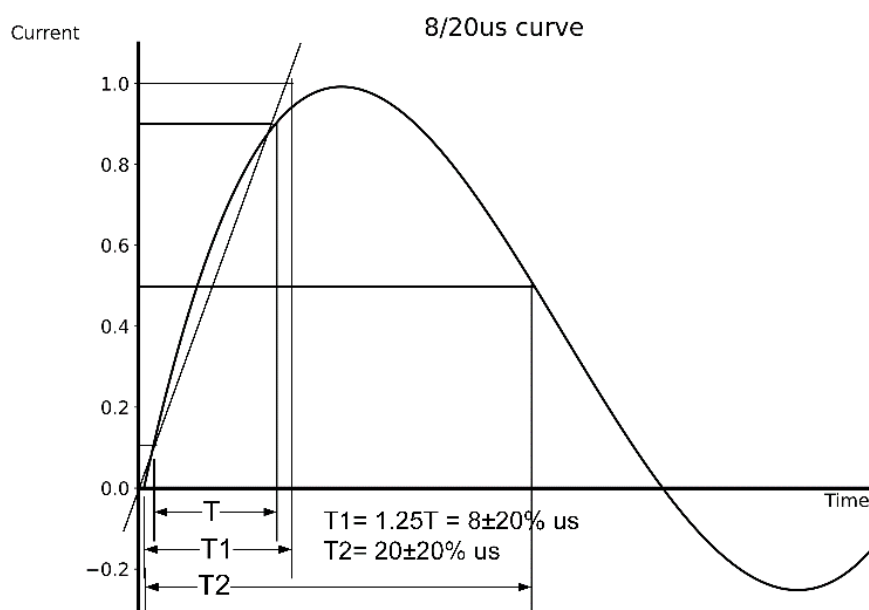
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	VRWM				3.3	V
Breakdown Voltage	VBR	IT = 1mA	4			V
Reverse Leakage Current	IR	VRWM = 3.3V			1	μA
Holding Voltage	VC	IPP=1A; $t_p=8/20\mu\text{s}$		7	9	V
Clamping Voltage	VC	IPP=8A; $t_p=8/20\mu\text{s}$		13	15	V
Junction Capacitance	CJ	I/O to GND; VR=0V; f=1MHz		0.6	1.0	pF
Junction Capacitance	CJ	I/O to I/O; VR=0V; f=1MHz		0.3	0.5	pF



Symbol	Parameters
VRWM	Peak Reverse Working Voltage
IR	Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
IF	Forward Current
VF	Forward Voltage @ IF

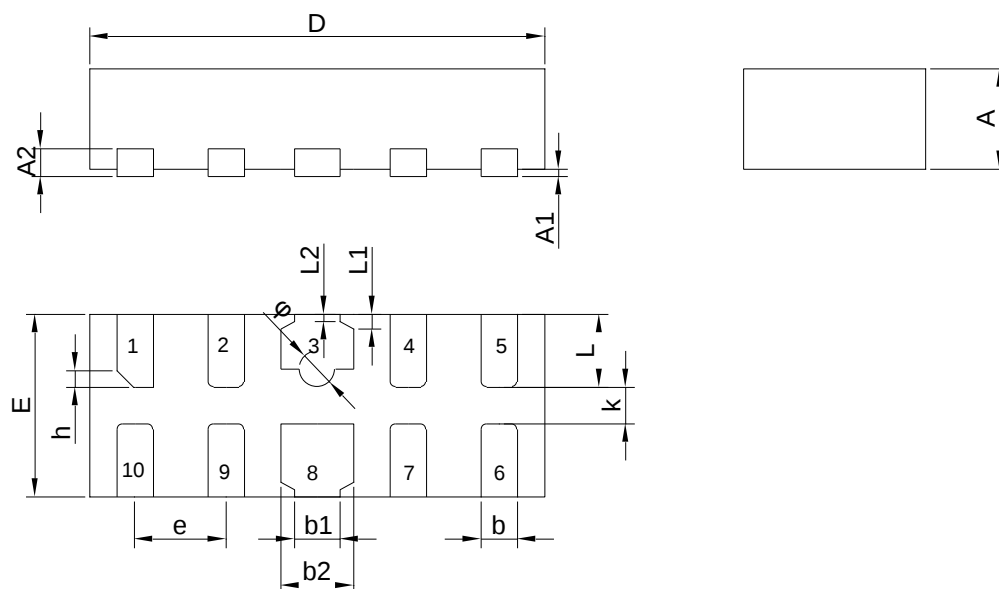


Typical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise Specified)





Outline Drawing – DFN2510-10L



Dimensions in Millimeter							
Symbol	Min.	Nom.	Max.	Symbol	Min.	Nom.	Max.
A	0.500	0.550	0.600	D	2.450	2.500	2.550
A1	0.00	/	0.05	E	0.950	1.00	1.050
A2	0.122	0.152	0.200	e	0.450	0.500	0.550
b	0.150	0.200	0.250	h	0.080	0.120	0.150
b1	0.200	0.250	0.300	k	0.150	0.200	0.250
b2	0.350	0.400	0.450	L	0.350	0.400	0.450
L1	0.075 REF			L2	0.05 REF		
φ	0.150	0.200	0.250				