

Features

- Up to 4 lines protects
- Ultra low junction capacitance (Max value: 0.8pF)
- Peak Pulse Current (8/20μs) MAX: 8A
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: ±20kV
Contact discharge: ±15kV
 - IEC61000-4-5 (Lightning) 8A (8/20μs)
- Low clamping voltage
- Low leakage current
- Working voltages: 3.3V
- RoHS Compliant
- Compliant to Halogen-free

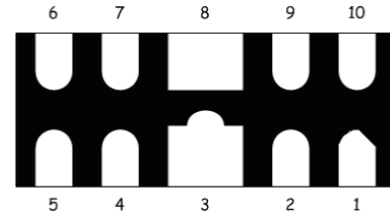
Applications

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation, Digital Cameras
- Peripherals, Audio Players, Industrial Equipment
- Automotive

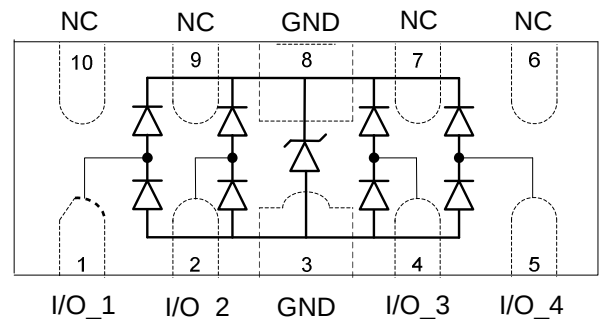
Mechanical Characteristics

- Package: DFN2510
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- UL Flammability Classification Rating 94V-0

Dimensions DFN2510



Pin Configuration



Marking Information



3XUE=Marking Code

● = Pin1 Logo

Absolute Maximum Ratings (T=25°C, RH=45%-75%, unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	70	W
Peak Pulse Current (8/20μs)	I _{PP}	8	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±20	kV
ESD per IEC 61000-4-2 (Contact)		±15	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			3.3	V	
Breakdown Voltage	V _{BR}	4.7		8.2	V	I _T = 1mA
Reverse Leakage Current	I _R			1	μA	V _{RWM} = 3.3V
Clamping Voltage	V _C			7	V	I _{PP} = 1A (8 x 20μs pulse), any I/O pin to ground
Clamping Voltage	V _C			8.5	V	I _{PP} = 8A (8 x 20μs pulse), any I/O pin to ground
Junction Capacitance	C _J		0.3	0.4	pF	V _R = 0V, f = 1MHz, between I/O pins
Junction Capacitance	C _J		0.45	0.8	pF	V _R = 0V, f = 1MHz, any I/O pin to ground

Typical Performance Characteristics

FIG1: Power rating derating curve

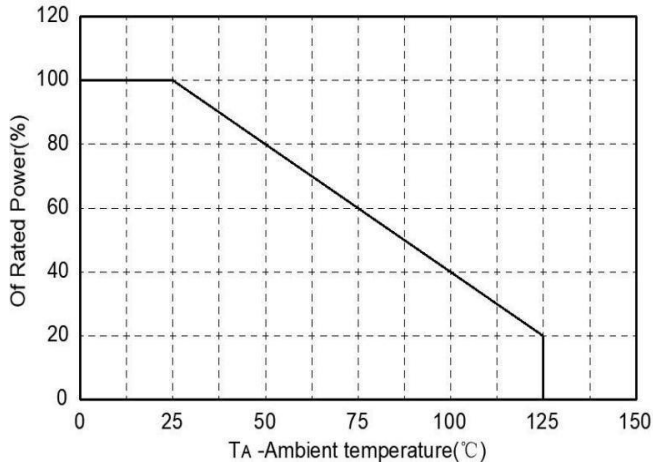


FIG2: pulse Waveform

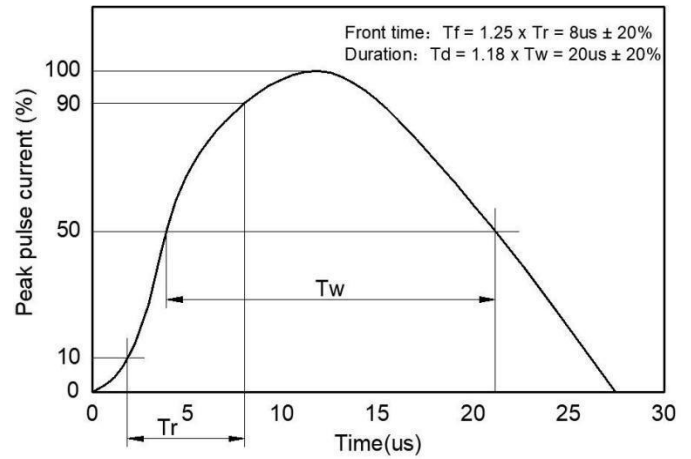


FIG3: Capacitance between terminals characteristics

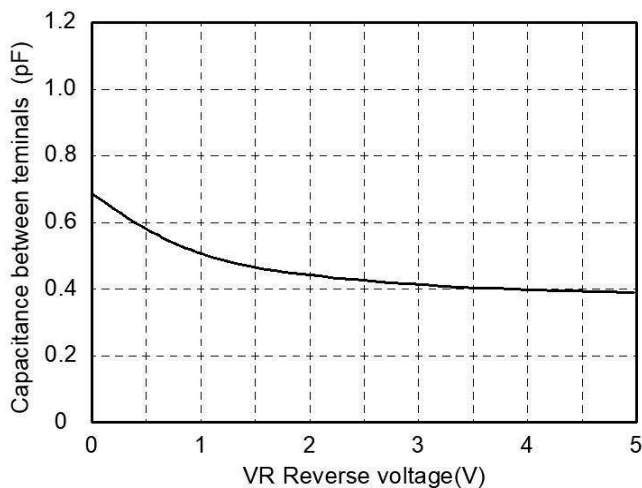


Figure 4: Clamping Voltage vs. Peak Pulse Current

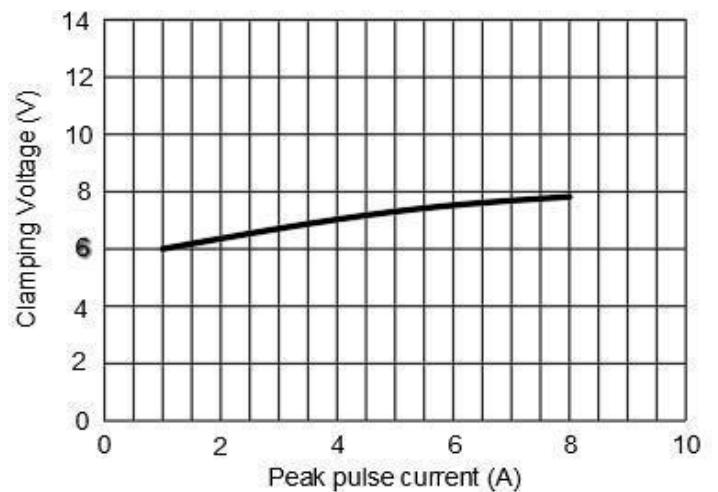
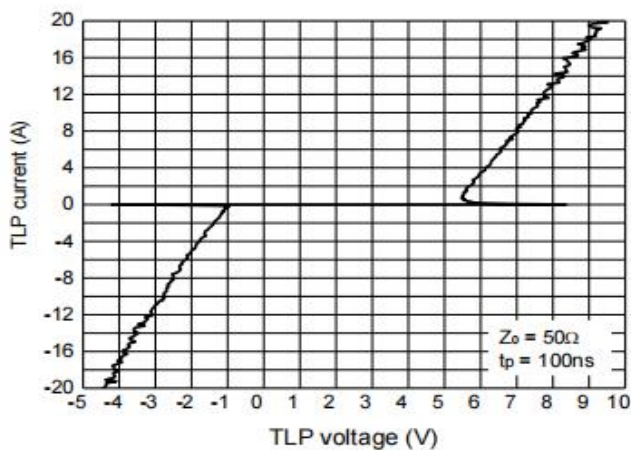
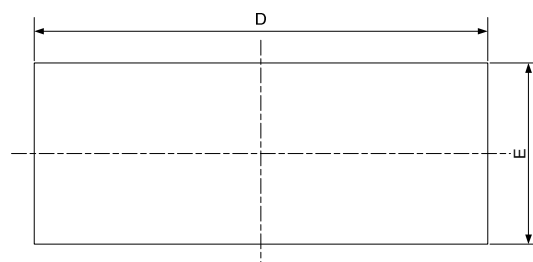


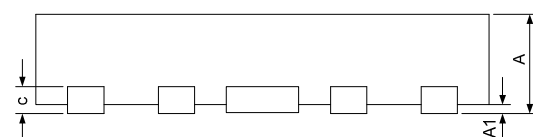
FIG 5: TLP IV Curve



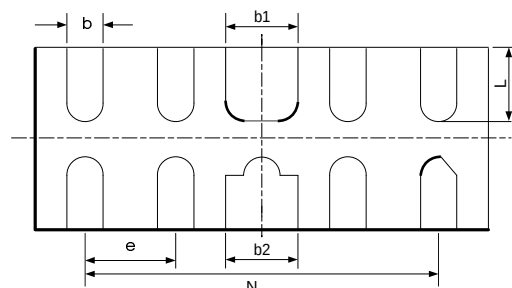
DFN2510 Package Outline Drawing



TOP VIEW



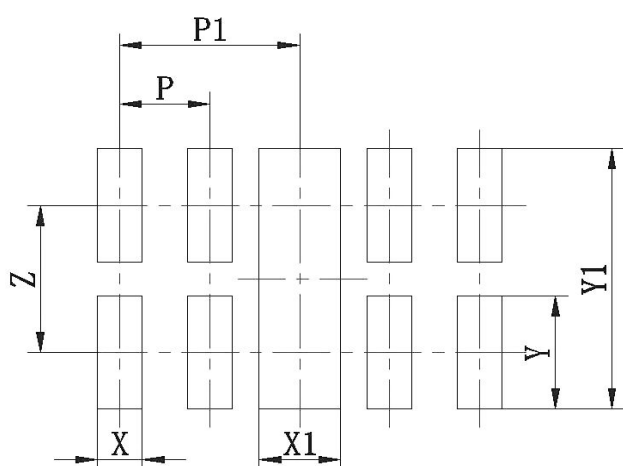
SIDE VIEW



BOTTOM VIEW

Symbol	Dimension in Millimeters	
	min	max
A	0.5	0.6
A1	0	0.05
D	2.4	2.6
E	0.9	1.1
e	(0.5)	
N	(2.0)	
b	0.15	0.25
b1	0.35	0.45
b2	0.35	0.45
c	(0.127)	
L	0.35	0.45

Suggested Land Pattern



Symbol	Dimension in Millimeters
	typ
X	(0.3)
X1	(0.45)
Y	(0.67)
Y1	(1.55)
Z	(0.87)
P	(0.5)
P1	(1.0)