

3.3V LOW CAPACITANCE TVS ARRAY FOR ESD PROTECTION

Features:

- 45 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects Four I/O lines
- Low Clamping Voltage
- Operating Voltage : 3.3V
- RoHS Compliant

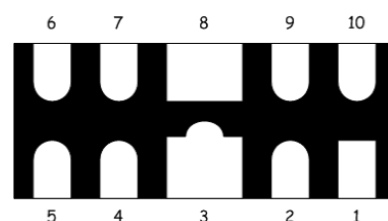
Applications:

- USB 2.0/3.1 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100/1000 Ethernet
- HDMI 1.3/1.4/2.0 interface

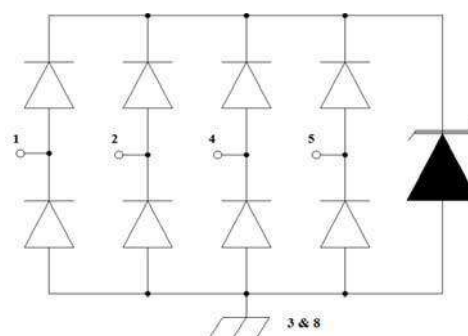
Mechanical Characteristics

- DFN2510P10 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 15 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

Dimensions DFN2510P10



Pin Configuration



Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	45	W
ESD per IEC 61000-4-2 (Air)	VESD	±17	Kv
ESD per IEC 61000-4-2 (Contact)		±15	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	TSTJ	-55 to +150	°C

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

Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
KWULC332510P10	P32A	3.3	4	1	6.2	15	3	1	0.5

Characteristic Curves

Figure 1. 8 x 20μ s Waveform

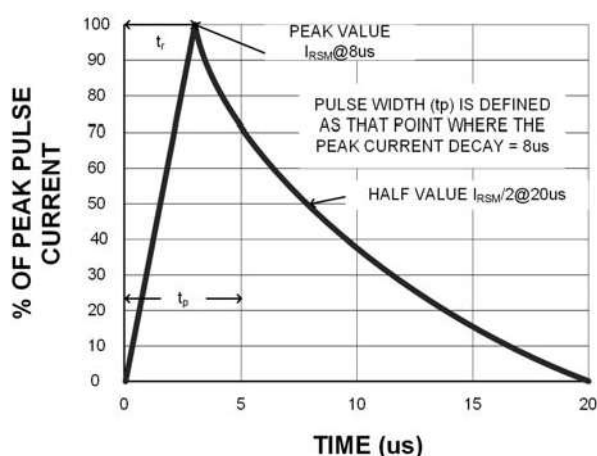


Figure 2. Power Derating Curve

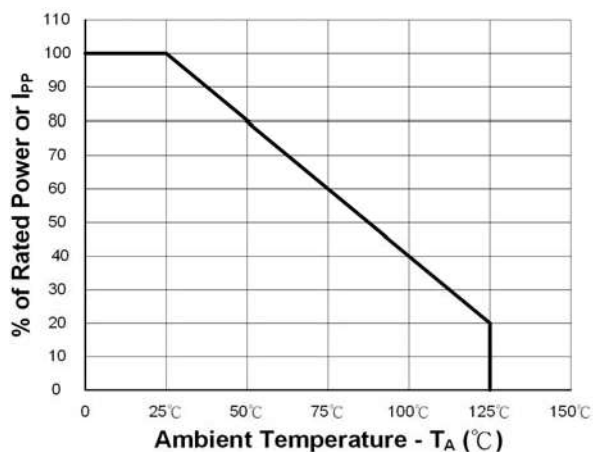
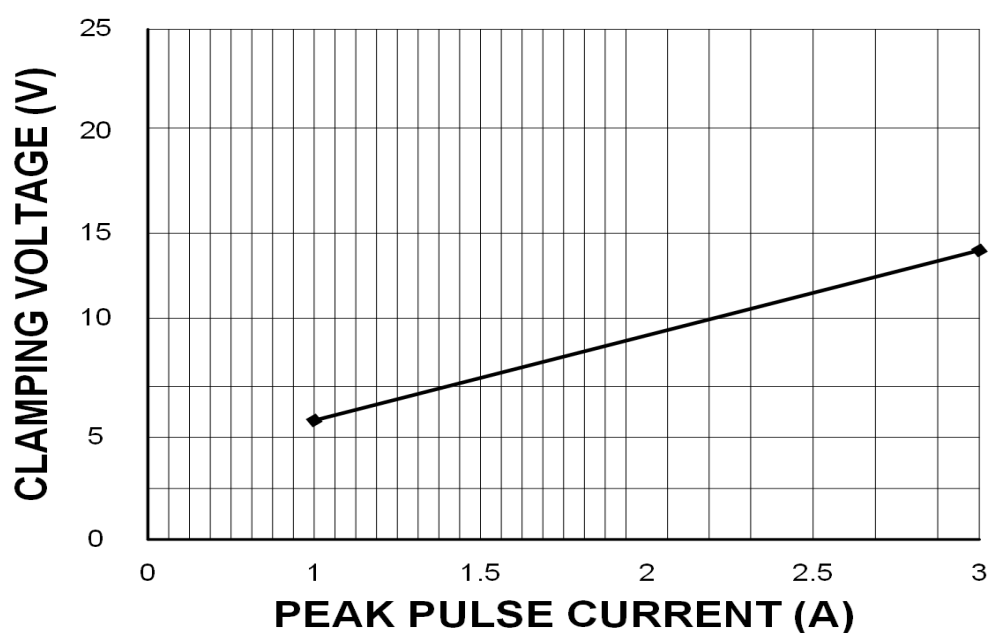
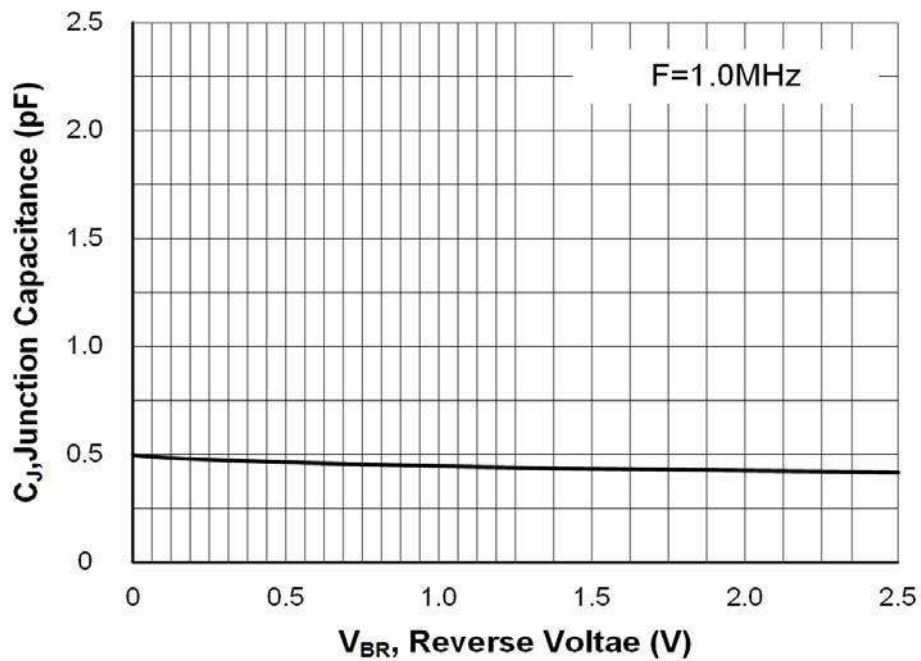


Figure 3. Clamping Voltage vs. Peak Pulse Current ($t_p=8/20us$)

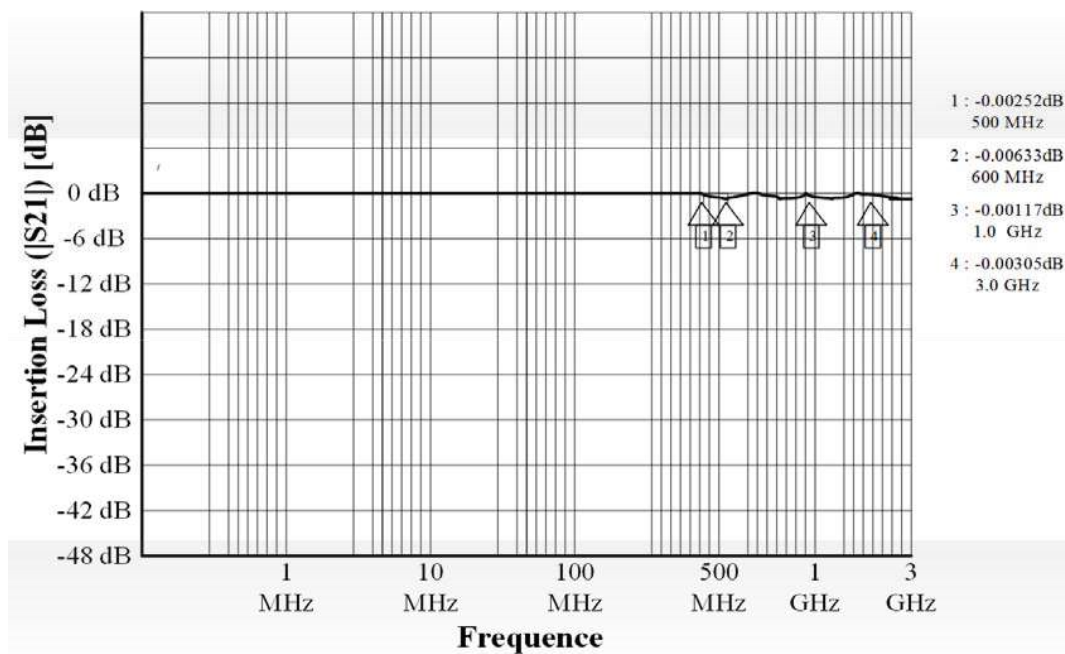


TYPIC CHARACTERISTICS

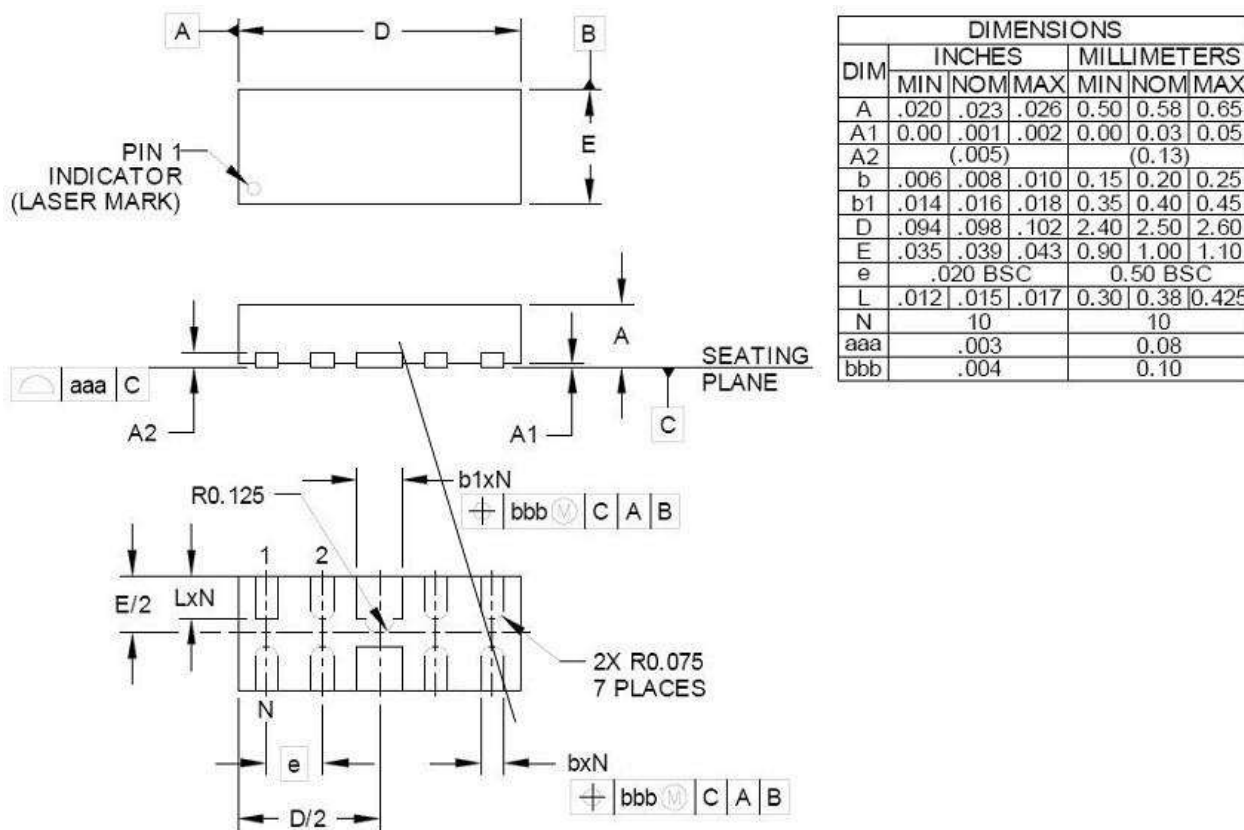
Figure 4. Typic Capacitance vs. Reverse Voltage



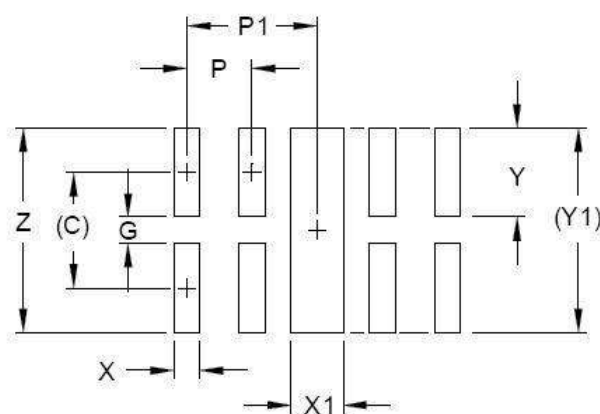
Inseccion Loss (S21)



DFN2510P10 PACKAGE OUTLINE & DIMENSIONS



* SOLDERING FOOTPRINT



DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(.034)	(0.875)
G	.008	0.20
P	.020	0.50
P1	.039	1.00
X	.008	0.20
X1	.016	0.40
Y	.027	0.675
Y1	(.061)	(1.55)
Z	.061	1.55