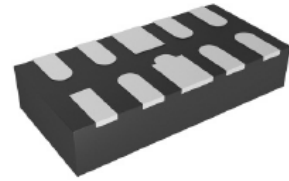


## APPLICATIONS

- High Definition Multi-Media Interface(HDM).
- Digital Visual Interface(DVI).
- Unified Display interface(UDI).
- MDDI Ports.
- PCI Express.
- Serial ATA.



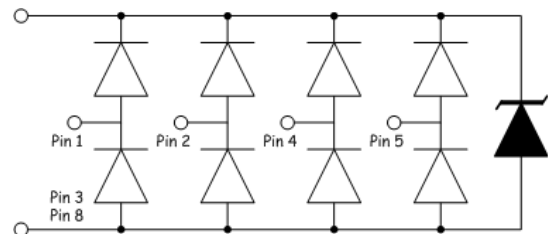
**DFN2510**

## MECHANICAL CHARACTERISTICS

- DFN2510 Package.
- Molding Compound Flammability Rating: UL 94V-O.
- Weight 15 Milligrams (Approximate).
- Quantity per Reel: 3000pcs.
- Reel Size: 7inch.
- Lead Finish: Lead Free.

## IEC COMPATIBILITY

- IEC61000-4-2(ESD)  $\pm 15KV$ (air),  $\pm 8KV$ (contact).
- IEC61000-4-4(EFT) 40A (5/50ns).
- IEC61000-4-5(Lightning) 2A (8/20 $\mu$ s).



**PIN CONFIGURATION**

## FEATURES

- 100 Watts Peak Pulse Power per Line ( $t_p=8/20\mu$ s).
- Protect two or four I/O lines.
- Low capacitance: 0.5pF typical (I/O to I/O)
- Low operating voltage: 5V.
- ROHS Compliant.

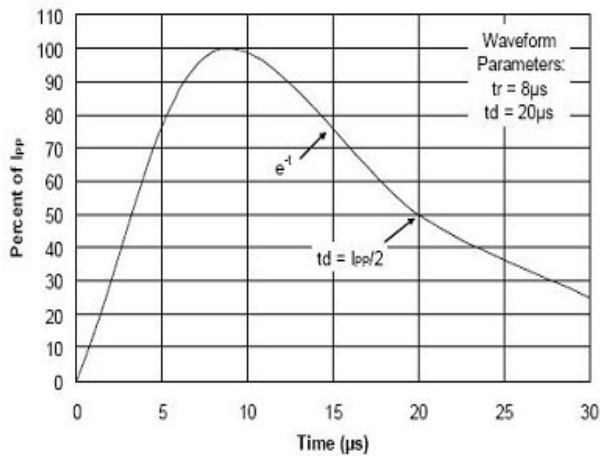
## DEVICE CHARACTERISTICS

<b>MAXIMUM RATINGS (@25°C Unless Otherwise Specified)</b>			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p=8/20\mu$ s waveform)	$P_{PP}$	100	Watts
Lead Soldering Temperature	$T_L$	260(10sec)	°C
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to + 150	°C

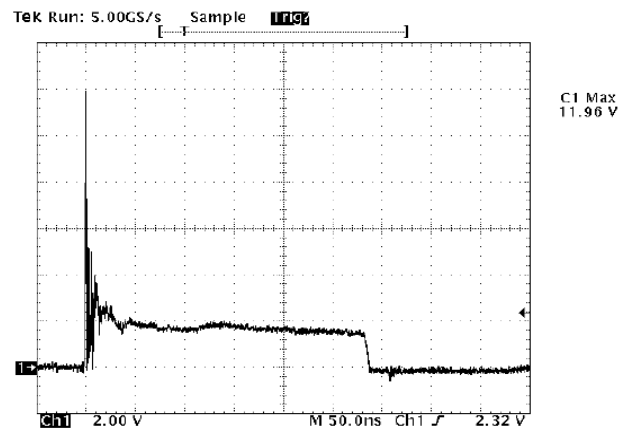
**ELECTRICAL CHARACTERISTICS PER LINE (@25°C Unless Otherwise Specified)**

PART NUMBER	$V_{RWM}$	$V_B$	$I_T$	$V_C$	$V_C$		$I_R$	$C_T$
	(V) (max.)	(V) (min.)		(V) @1A (max.)	(V) (max.)(@A)	( $\mu$ A) (max.)		
SBC0524P	5.0	6.0	1	15	25	2	1	0.8

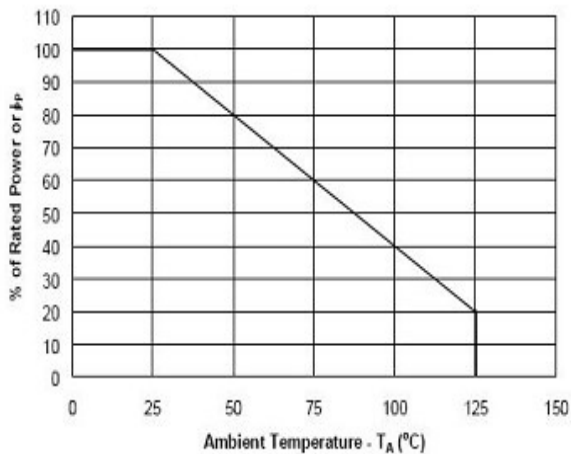
**Pulse Waveform**



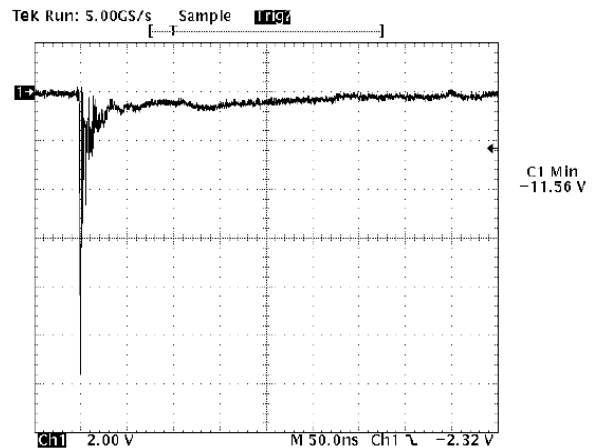
**ESD Clamping (8kV Contact per IEC 61000-4-2)**



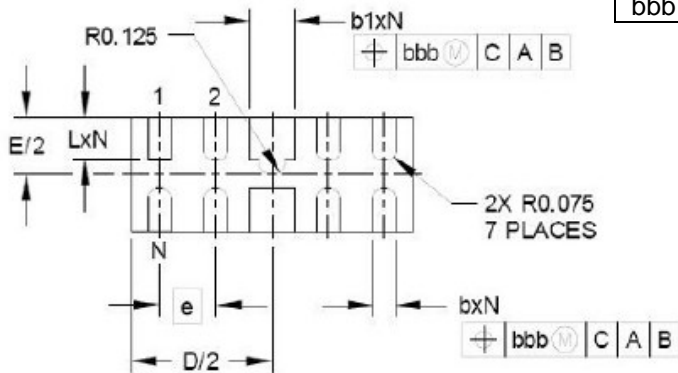
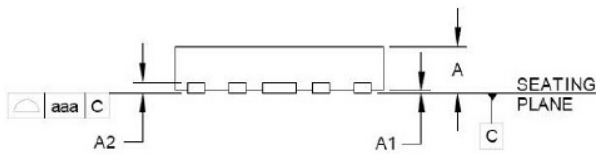
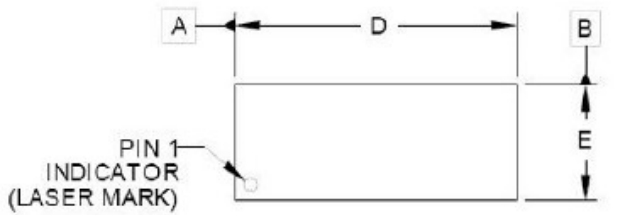
**Power Derating Curve**



**ESD Clamping (-8kV Contact per IEC 61000-4-2)**

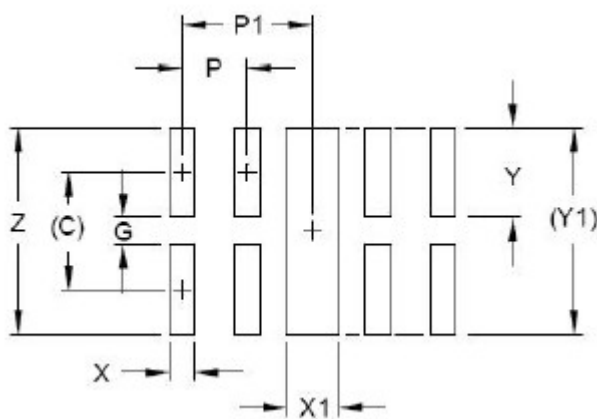


### DSON-10 PACKAGE OUTLINE & DIMENSIONS



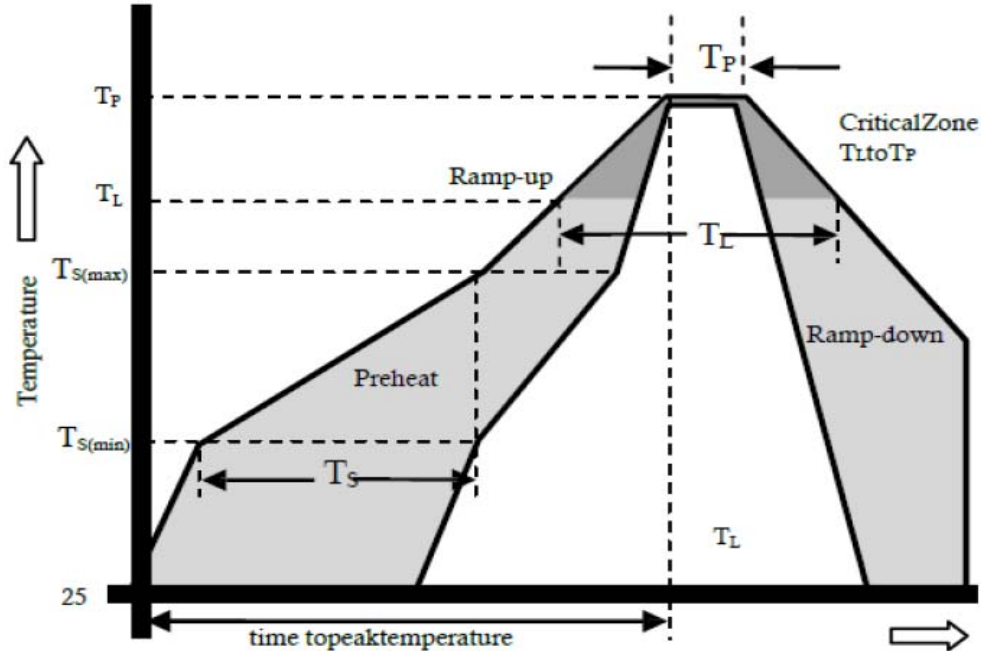
DIMENSIONS						
DIM	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	Nom	MAX
A	.020	.023	.026	0.50	0.58	0.65
A1	0.00	.001	.002	0.00	0.03	0.05
A2	(.005)			(0.13)		
b	.006	.008	.010	0.15	0.20	0.25
b1	.014	.016	.018	0.35	0.40	0.45
D	.094	.098	.102	2.40	2.50	2.60
E	.035	.039	.043	0.90	1.00	1.10
e	.020 BSC			0.50 BSC		
L	.012	.015	.017	0.30	0.38	0.425
N	10			10		
aaa	.003			0.08		
bbb	.004			0.10		

### SOLDERING FOOTPRINT



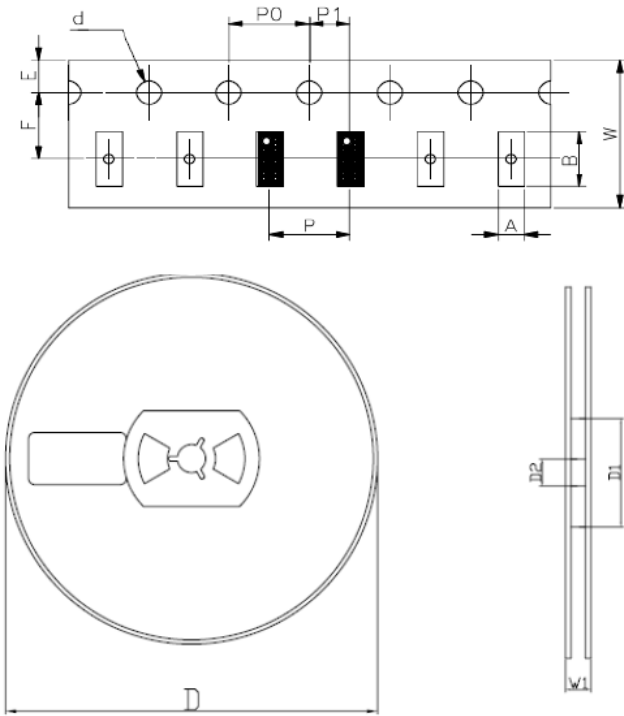
DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(.034)	(0.875)
G	.008	0.20
P	.020	0.50
P1	.039	1.00
X	.008	0.20
X1	.016	0.40
Y	.027	0.675
Y1	(.061)	(1.55)
Z	.061	1.55

## REFLOW PROFILE



Reflow Condition		Pb-Free Assembly
Pre Heat	Temperature Min	150°C
	Temperature Max	200°C
	Time (Min to Max)	20 - 80 secs
Average ramp up rate (Liquid) Temperature ( $T_L$ ) to peak		3°C/s Max.
$T_S$ (Max) to $T_L$ -Ramp-up Rate		3°C/s Max.
Reflow	-Temperature ( $T_L$ )(Liquid)	217°C
	-Temperature ( $T_L$ )	60 - 150 secs
Peak Temperature ( $T_P$ )		(260+0/-5)°C
Time within 5°C of actual Peak Temperature ( $T_P$ )		8- 15 secs
Ramp-down Rate		6°C/s Max.
Time 25°C to peak Temperature( $T_P$ )		8 min Max
Do not exceed		260°C

### PACKGE REEL INFORMATION



REF	mm	inch
A	1.3+/-0.1	0.051+/-0.004
B	3.0+/-0.1	0.354+/-0.004
d	1.25+/-0.1	0.049+/-0.004
D	178+/-1.0	7.01+/-0.039
D1	55+/-3	2.165+/-0.118
D2	13+/-0.5	0.512+/-0.020
E	1.75+/-0.1	0.069+/-0.004
F	3.6+/-0.2	0.138+/-0.008
P	4.0+/-0.2	0.158+/-0.008
P0	4.0+/-0.2	0.158+/-0.008
P1	2.0+/-0.2	0.079+/-0.008
W	8.0+/-0.2	0.315+/-0.008
W1	14.4+/-0.5	0.567+/-0.020

OUTLINE	Reel(PCS)
Taping	3000

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