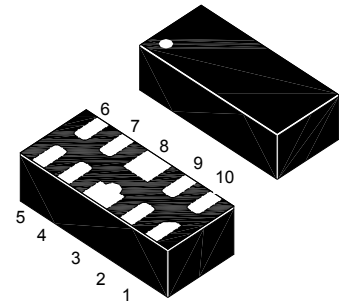
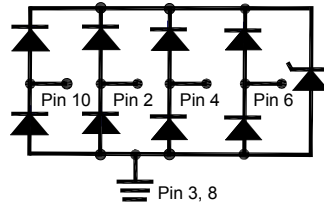


# ESDLC0524MP

## Ultralow Capacitance Steering Diode / TVS Array

### Features

- Ultra Low Clamping Voltage
- Low Leakage Current
- Protects 4 Lines
- Ultra Low Capacitance



1. NC 2. I/O 3. GND 4. I/O 5. NC  
6. I/O 7. NC 8. GND 9. NC 10. I/O  
Marking Code: "524"  
DFN2510-10 Plastic package

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p = 8/20\text{ }\mu\text{s}$ )	$P_{PP}$	50	W
Peak Pulse Current ( $t_p = 8/20\text{ }\mu\text{s}$ )	$I_{PP}$	6	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	15 8	KV
Operation Temperature Range	$T_{opr}$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Working Voltage	$V_{RWM}$	-	5	V
Reverse Breakdown Voltage at $I_T = 1\text{ mA}$	$V_{(BR)R}$	6	-	V
Reverse Current at $V_{RWM} = 5\text{ V}$	$I_R$	-	0.5	$\mu\text{A}$
Positive Clamping Voltage at $I_{PP} = 1\text{ A}$ , $t_p = 8/20\text{ }\mu\text{s}$	$V_{C1}$	-	8.5	V
Positive Clamping Voltage at $I_{PP} = 6\text{ A}$ , $t_p = 8/20\text{ }\mu\text{s}$	$V_{C2}$	-	9	V
Junction Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$ , Any I/O Pin to GND	$C_j$	-	0.7	$\text{pF}$

**TOP DYNAMIC**



ISO14001 : 2004 Certificate No. 121505007  
ISO 9001 : 2008 Certificate No. 50114012  
OHSAS 18001 : 2007 Certificate No. 05131506008  
IECQ QC 080000 Certificate No. ECQV1000114022

Dated: 15/08/2016 Rev:04

FIGURE 1  
PEAK PULSE POWER VS PULSE TIME

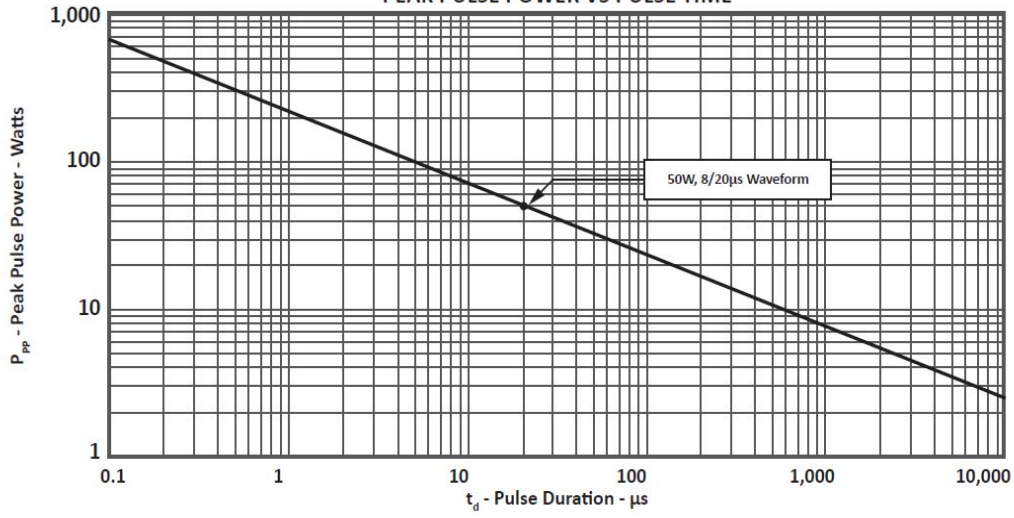
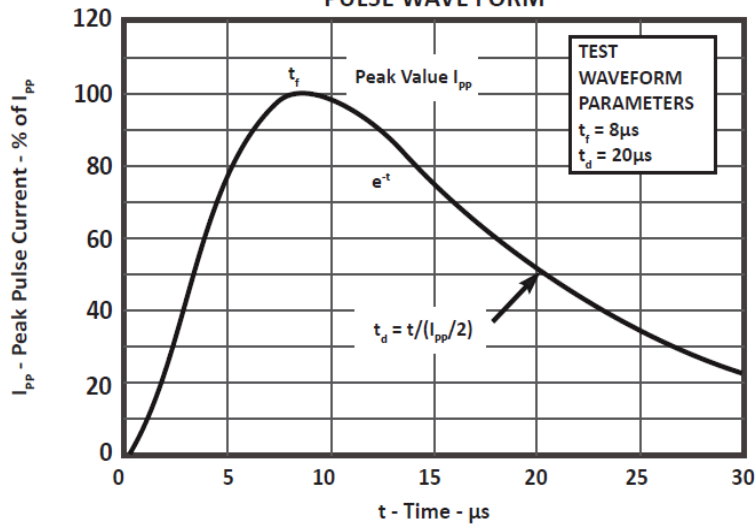


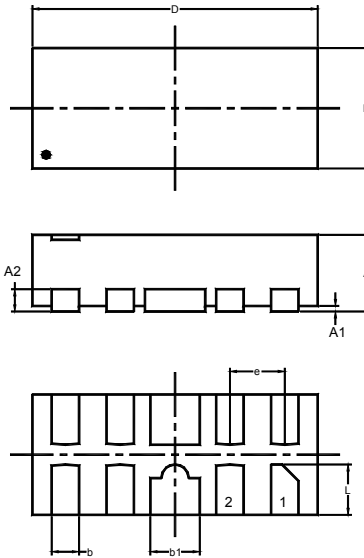
FIGURE 2  
PULSE WAVE FORM



# ESDLC0524MP

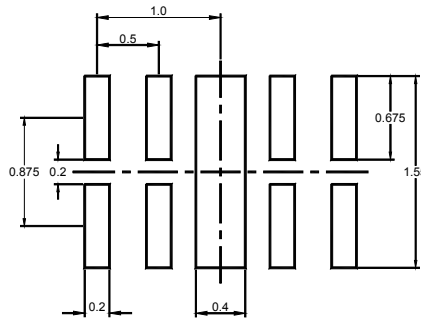
Package Outline Dimensions (Units: mm)

DFN2510-10



UNIT	A	A1	A2	b	b1	D	E	e	L
mm	0.50	0	0.13	0.15	0.35	2.40	0.90	0.50	0.30
	0.65	0.05		0.25	0.45	2.60	1.10		0.425

## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN2510-10	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

**TOP DYNAMIC**



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