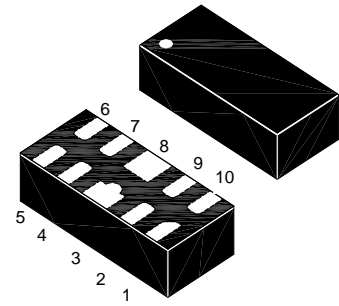
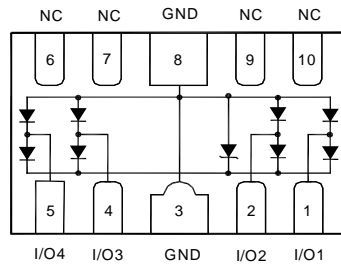


# ESDLC0614MP-HAF

## Ultra Low Capacitance TVS Array

### Features

- Low leakage current
- Ultra low capacitance
- Halogen and Antimony Free(HAF), RoHS compliant



1. I/O1 2. I/O2 3. GND 4. I/O3 5. I/O4  
 6. NC 7. NC 8. GND 9. NC 10. NC  
 Marking Code: "614"  
 DFN2510-10 Plastic package

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

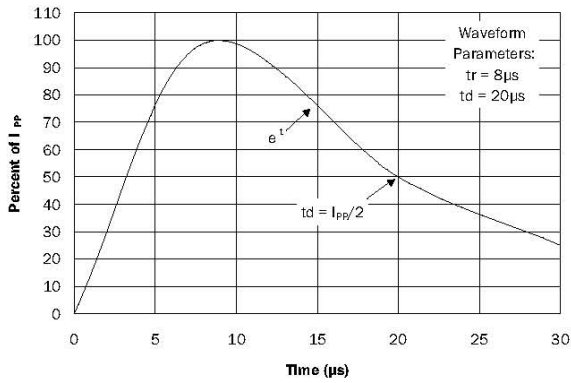
Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	$V_{ESD}$	20	KV
ESD per IEC 61000-4-2 (Contact)		8	
Operating Temperature Range	$T_J$	- 40 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

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

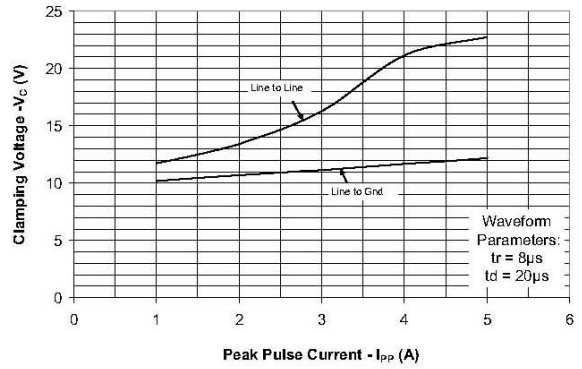
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ mA}$	$V_{(BR)R}$	6	-	V
Reverse Current at $V_{RWM} = 3\text{ V}$	$I_R$	-	70	nA
Positive Clamping Voltage at $I_{PP} = 1\text{ A}$ , $t_p = 8/20\text{ }\mu\text{s}$	$V_C$	-	15	V
Junction Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$ , Any I/O Pin to Gnd	$C_{j1}$	-	0.8	pF
Junction Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$ , Between I/O Pins	$C_{j2}$	-	0.4	pF

**TOP DYNAMIC**

**Pulse Waveform**



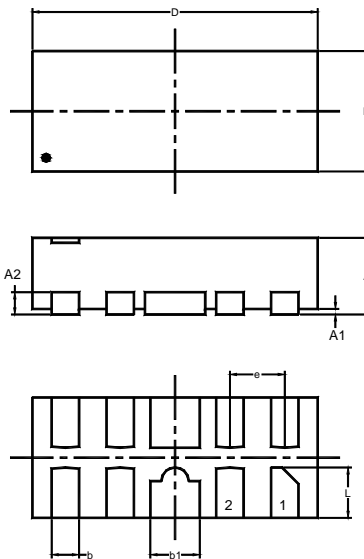
**Clamping Voltage vs. Peak Pulse Current**



# ESDLC0614MP-HAF

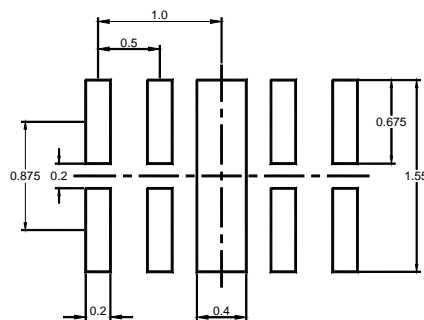
## Package Outline Dimensions (Units: mm)

DFN2510-10



UNIT	A	A1	A2	b	b1	D	E	e	L
mm	0.46	0	0.13	0.15	0.35	2.40	0.90	0.50	0.30
	0.51	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**