

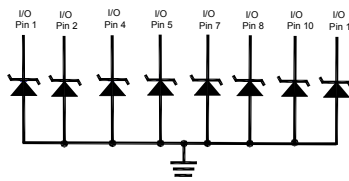
# ESDLC8008MP

## ESD Protection Diode

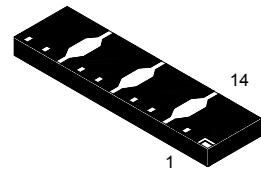
Low Capacitance Array for High Speed Data Lines

### Features

- Integrated 4 Pairs (8 Lines) High Speed Data
- Single Connect , Flow through Routing
- Low Capacitance



Pin 3, 6, 9, 12, 13, 14



Marking Code: "8008MP"  
DFN5515-14 Plastic package

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

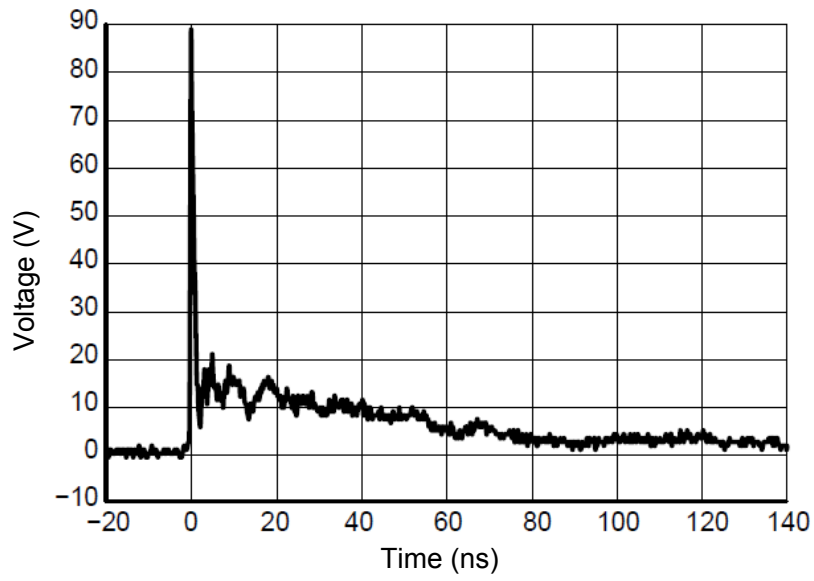
Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	$\pm 15$	KV
Operation Temperature Range	$T_{opr}$	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

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

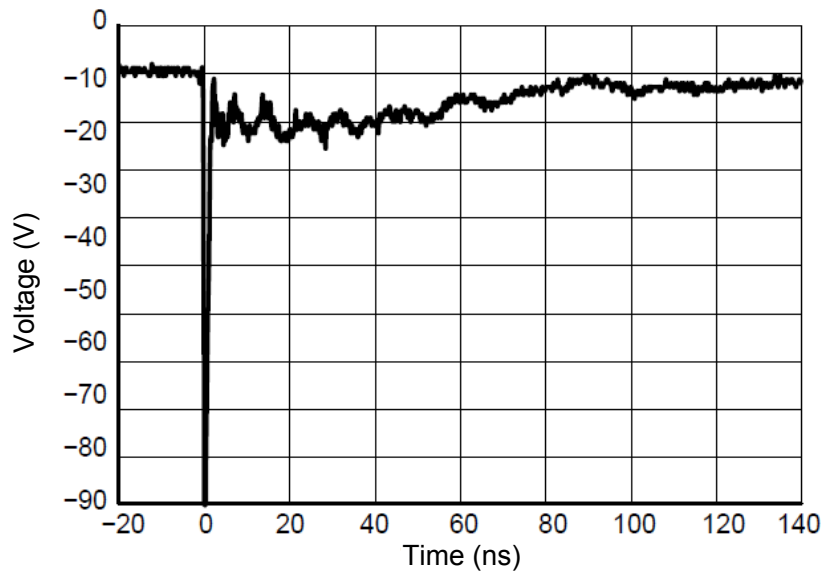
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage at I/O Pin to GND	$V_{RWM}$	-	-	3.3	V
Reverse Breakdown Voltage at $I_t = 1\text{ mA}$ , I/O Pin to GND	$V_{(BR)R}$	5.5	-	8.5	V
Reverse Current at $V_{RWM} = 3.3\text{ V}$ , I/O Pin to GND	$I_R$	-	-	0.5	$\mu\text{A}$
Holding Reverse Voltage at I/O Pin to GND	$V_{HOLD}$	-	1.19	-	V
Holding Reverse Current at I/O Pin to GND	$I_{HOLD}$	-	25	-	mA
Clamping Voltage at $I_{PP} = 8\text{ A}$ , at $I_{PP} = -8\text{ A}$ IEC 61000-4-2 equivalent ( $\pm 4\text{ KV Contact}$ , $\pm 4\text{ KV Air}$ )	$V_C$	-	4.6 -5.1	-	V
Clamping Voltage at $I_{PP} = 16\text{ A}$ , at $I_{PP} = -16\text{ A}$ IEC 61000-4-2 equivalent ( $\pm 8\text{ KV Contact}$ , $\pm 15\text{ KV Air}$ )	$V_C$	-	8.1 -10.3	-	V
Junction Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$ between I/O Pins and GND at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$ , between I/O Pins	$C_j$	-	-	0.35 0.16	pF

**TOP DYNAMIC**

IEC61000-4-2 +8 KV Contact ESDClamping Volatge



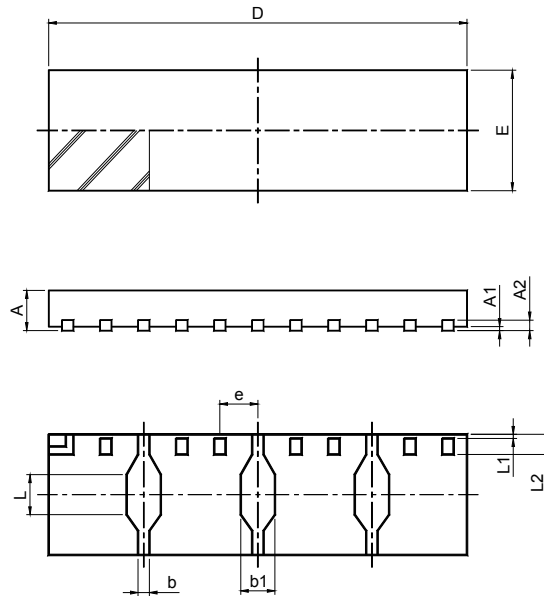
IEC61000-4-2 -8 KV Contact ESD Clamping Volatge



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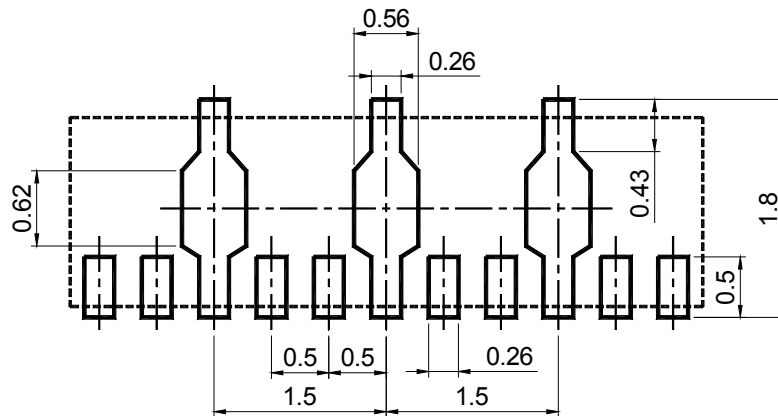
## Package Outline Dimensions (Units: mm)

DFN5515-14



UNIT	A	A1	A2	b	b1	D	E	e	L	L1	L2
mm	0.45 0.55	0 0.05	0.13	0.15 0.25	0.45 0.55	5.50	1.50	0.50	0.50 0.70	0 0.05	0.20 0.40

## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN5515-14	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

**TOP DYNAMIC**