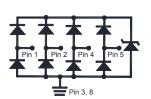
ESDLC3325MP-HAF

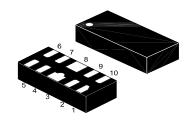
ESD Protection Diode

Low Capacitance Array for High Speed Date Lines

Features

- · Low ESD clamping voltage
- · Low capacitance
- Halogen and Antimony Free(HAF), RoHS compliant





1. I/O 2. I/O 3. GND 4. I/O 5. I/O 6. NC 7. NC 8. GND 9. NC 10. NC DFN2510-10 Plastic Package

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

Parameter		Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)		P_PK	75	W
Peak Pulse Current (tp = 8/20 μs)		I _{PP}	5	Α
ESD (IEC 61000-4-2)	Air Contact	V_{ESD}	± 30 ± 25	KV
Operation Junction Temperature Range		TJ	- 40 to + 125	°C
Storage Temperature Range		T_{stg}	- 55 to + 150	°C

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit		
Reverse Stand-Off Voltage, Any I/O to Gnd	V_{RWM}	-	-	3.3	V		
Punch Through Voltage at I _{PT} = 2 μA, Any I/O to Gnd	V _{PT}	3.8	-	5.5	V		
Reverse Current at V _{RWM} = 3.3 V, Any I/O to Gnd	I _R	-	-	100	nA		
Clamping Voltage at I_{PP} = 1 A, tp = 8/20 µs, Any I/O to Gnd at I_{PP} = 5 A, tp = 8/20 µs, Any I/O to Gnd	V _C	-	-	9 12	V		
Clamping Voltage at I_{TLP} = 4 A, tp = 0.2/100 ns, Any I/O to Gnd at I_{TLP} =16 A, tp = 0.2/100 ns, Any I/O to Gnd	V _{CL}		9.5 16.8		V		
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Any I/O to Gnd at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Between I/O Pins	C _j			0.65 0.4	pF		
Dynamic Resistance 1)	R_{dyn}	-	0.61	-	Ω		

 $^{^{1)}}$ Dynamic Resistance calculated from $\rm I_{TLP}$ = 4A to $\rm I_{TLP}$ = 16 A .



Electrical Characteristics Curves

Fig 1. Pulse Waveform

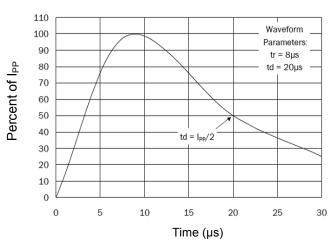


Fig 2. Power Derating Curve

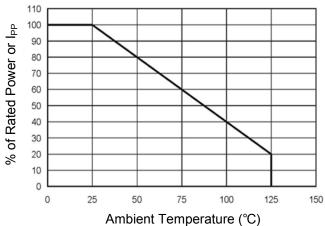
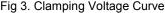
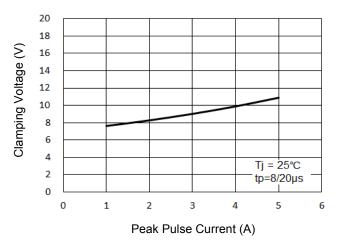


Fig 3. Clamping Voltage Curve







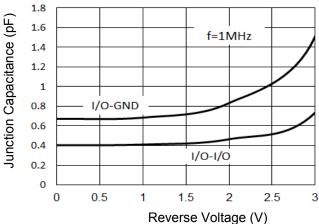
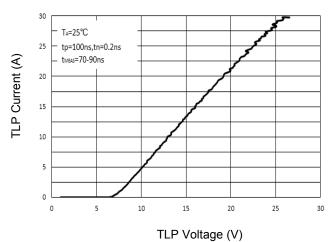


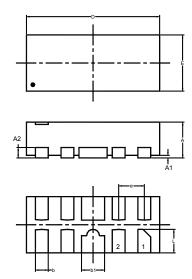
Fig. 5 TLP Curve





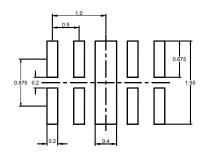
Package Outline Dimensions (Units: mm)





UNIT	А	A1	A2	b	b1	D	E	е	L
mm	0.46	0	0.13	0.15	0.35	2.40	0.90	0.50	0.30
mm	0.51	0.05		0.25	0.45	2.60	1.10		0.425

Recommended Soldering Footprint



Packing information

Package I ''	Tape Width	F	Pitch	Reel Size		D D 1D 11 0 11
	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity
DFN2510-10	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

Marking information

" F5 " = Part No.

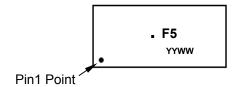
" • " = HAF (Halogen and Antimony Free)

" YYWW " = Date Code Marking

" YY " = Year

"WW" = Week

Font type: Arial



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