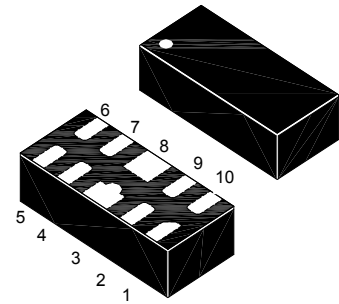
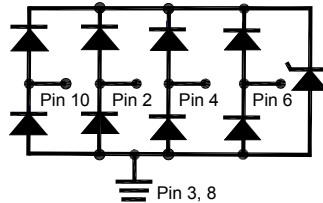


ESDLC0524BMP

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: "24B"
DFN2510-10 Plastic package

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PP}	95	W
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	5	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 $T_a = 25^\circ\text{C}$

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	μA
Positive Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_{C1}	-	9	V
Positive Clamping Voltage at $I_{PP} = 5 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_{C2}	-	19	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Any I/O Pin to Gnd	C_{j1}	-	7	pF
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$, Between I/O Pins	C_{j2}	-	0.6	pF

TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
ISO 9001 : 2008 Certificate No. 50114012
OHSAS 18001 : 2007 Certificate No. 0513150006
IECQ QC 080000 Certificate No. EC34100214002

Dated: 15/08/2016 Rev:04

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

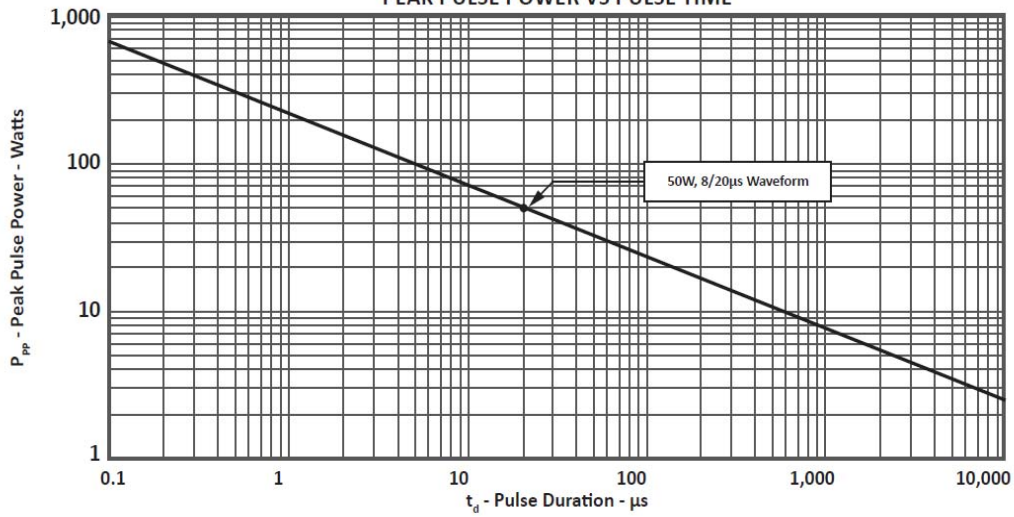
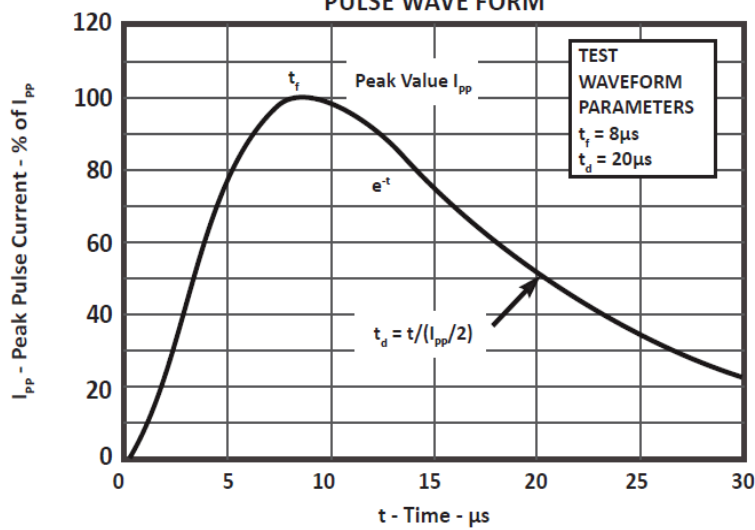


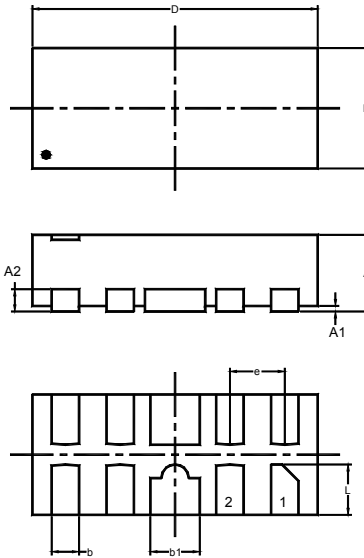
FIGURE 2
PULSE WAVE FORM



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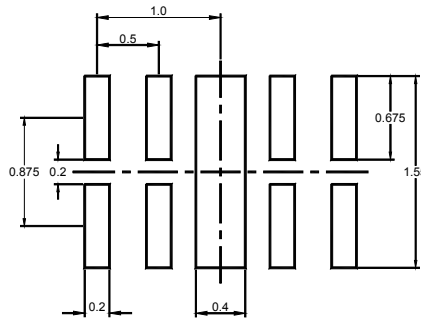
Package Outline Dimensions (Units: mm)

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

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