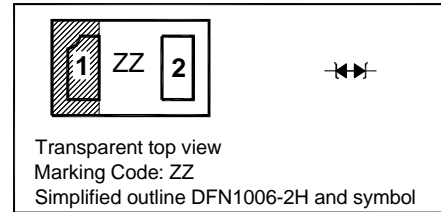


ESD9BL5V0P

Bidirectional ESD Protection Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Cathode



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

Parameter	Symbol	Value	Unit
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	2.5	A
ESD per IEC 61000-4-2 Contact	V_{ESD}	± 8	KV
Electrostatic Discharge Voltage (Ten non-repetitive ESD pulses)	V_{ESD}	± 10	KV
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	5.5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	V_{BR}	6	10	V
Reverse Current at $V_{RWM} = 5 \text{ V}$	I_{RM}	-	100	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 2.5 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	- -	11 15	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_d	-	0.55	pF

TOP DYNAMIC

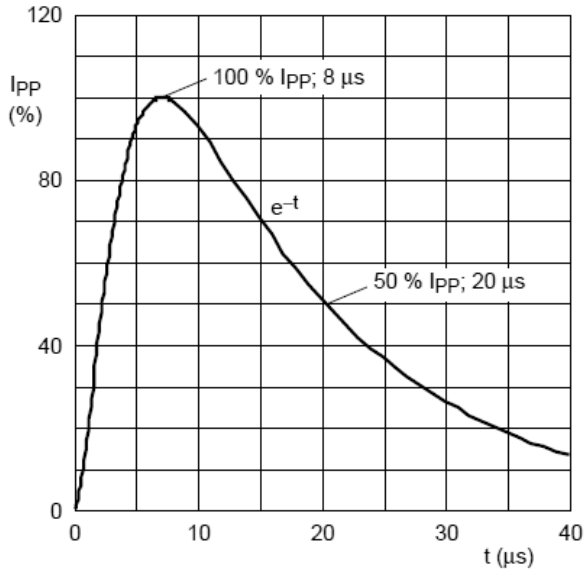


Fig 1. 8/20 μ s pulse waveform according to

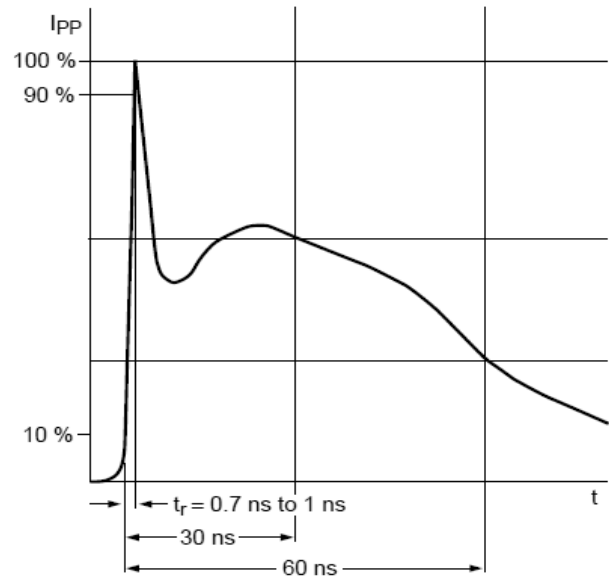


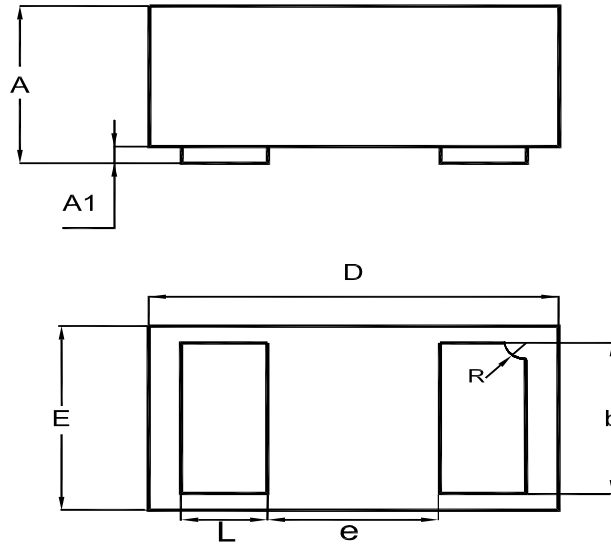
Fig 2. ESD pulse waveform according to

ESD9BL5V0P

PACKAGE OUTLINE

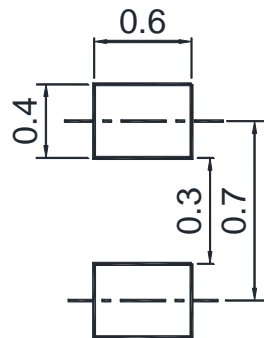
Plastic surface mounted package

DFN1006-2H



UNIT	A	A1	b	D	E	e	L	R
mm	0.51	0.05	0.55	1.05	0.65	0.4	0.3	0.15
	0.46	0	0.45	0.95	0.55		0.2	0.05

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1006-2H	8	4 ± 0.1	0.157 ± 0.004	178	7	5,000

TOP DYNAMIC