

ESDBL5V0HP-HAF

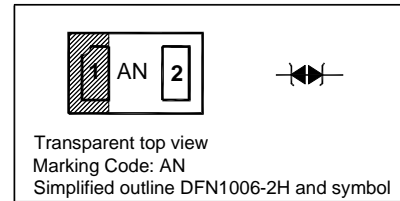
ESD Protection Diode

Features

- Low Leakage Current
- Bi-direction ESD protection of one line
- Low diode capacitance
- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Cathode



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

Parameter	Symbol	Value	Unit
IEC61000-4-2 (ESD) Air Contact	V_{ESD}	± 15 ± 8	KV
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Type	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage			Diode Capacitance		
	V_{RWM}	I_{RM} at V_{RWM}	V_{BR}		at I_{R}	C_d	at f	at V_{R}
	Max. (V)	Max. (μA)	Min. (V)	Max. (V)	(mA)	Max. (pF)	(MHz)	(V)
ESDBL5V0HP	5	0.1	5.5	9.5	5	3.5	1	0

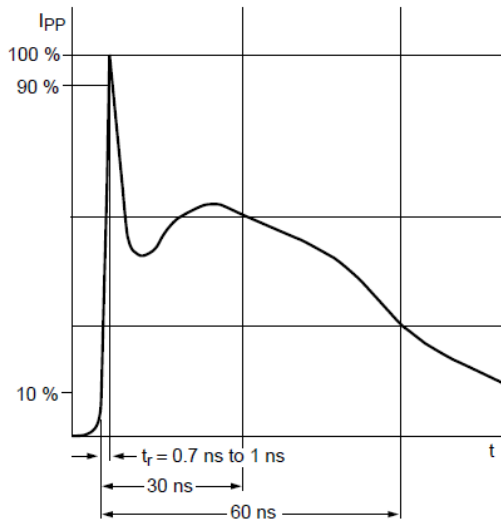


Fig 1. ESD pulse waveform according to IEC 61000-4-2

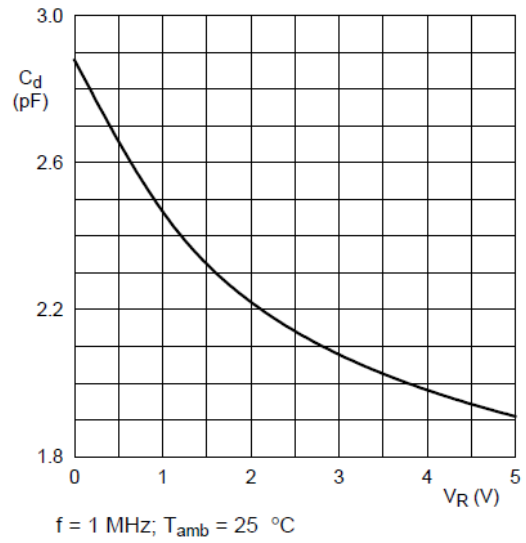


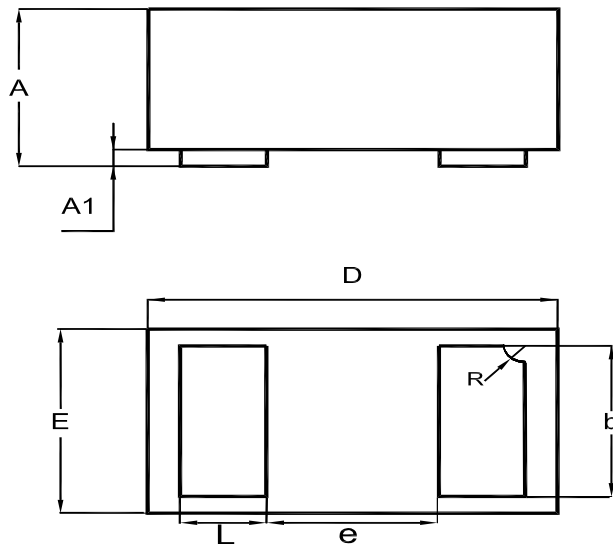
Fig 2. Diode capacitance as a function of reverse voltage; typical values

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PACKAGE OUTLINE

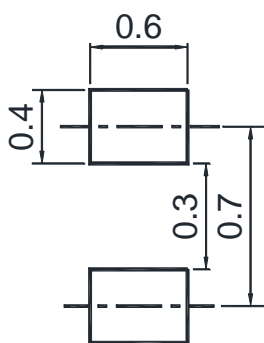
Plastic surface mounted package

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