

# ESDB1211HP

## Transient Voltage Suppressors

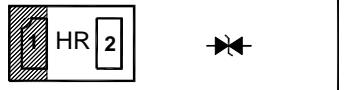
for ESD Protection

### Features

- Protects one I/O or power line
- Low clamping voltage
- Bi-direction high reliability
- Low leakage current

PINNING	
PIN	DESCRIPTION
1	Anode
2	Anode



Transparent top view  
Marking Code: HR  
Simplified outline DFN1006-2H and symbol

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

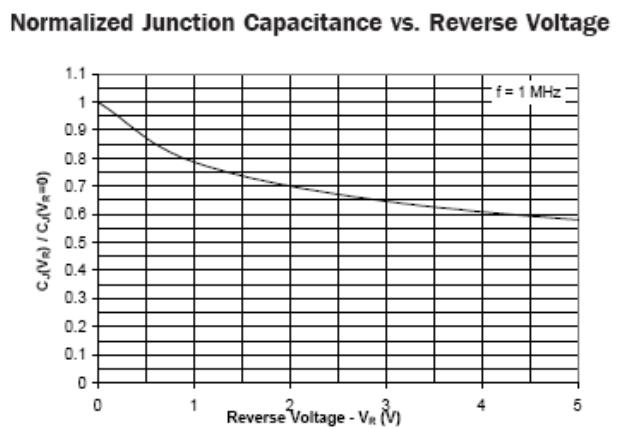
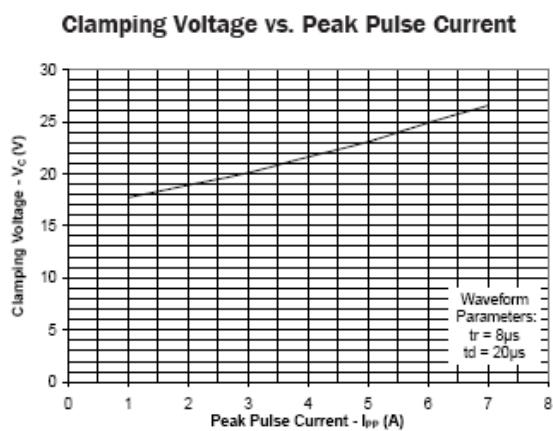
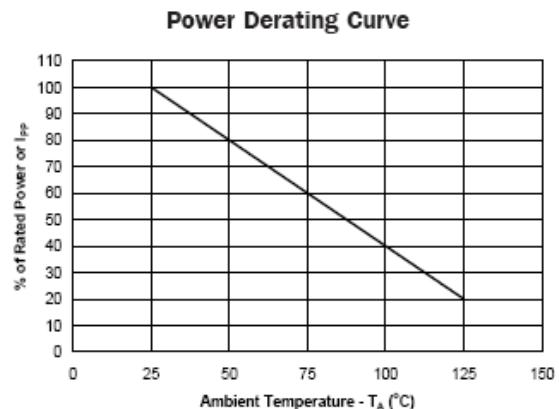
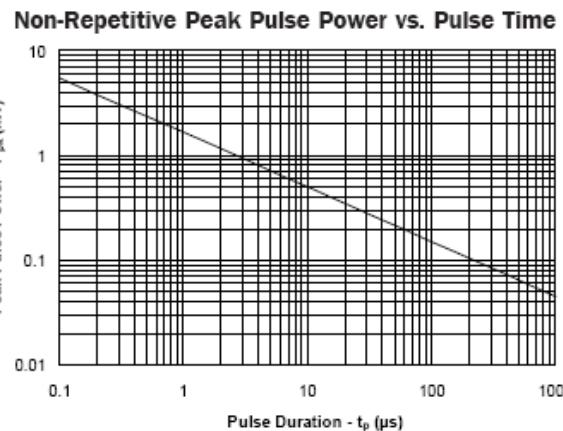
Parameter	Symbol	Value	Unit
Peak Pulse Current ( $t_p = 8/20 \mu\text{s}$ )	$I_{PP}$	7	A
IEC61000-4-2 (ESD) Air Contact	$V_{ESD}$	$\pm 15$ $\pm 8$	kV
Peak Pulse Power ( $t_p = 8/20 \mu\text{s}$ )	$P_{PK}$	200	W
Operation Temperature Range	$T_j$	- 55 to + 125	°C
Storage Temperature Range	$T_{stg}$	- 55 to + 150	°C

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	12	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	13.3	-	V
Reverse Current at $V_{RWM} = 12 \text{ V}$	$I_R$	-	1	uA
Clamping Voltage at $I_{PP} = 1 \text{ A}$ , $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 7 \text{ A}$ , $t_p = 8/20 \mu\text{s}$	$V_C$	- -	19 28.5	V
Junction Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	$C_j$	-	25	pF

**TOP DYNAMIC**

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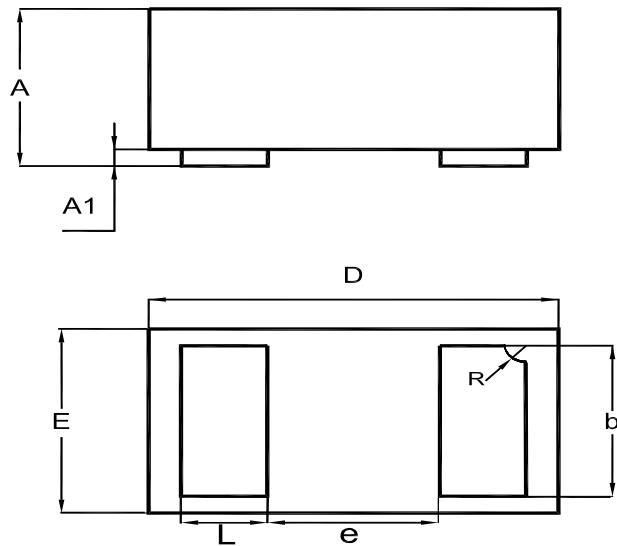
**TOP DYNAMIC**

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## PACKAGE OUTLINE

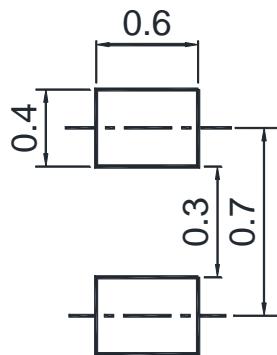
Plastic surface mounted package

DFN1006-2H



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