

# ESDBL18HP

## Transient Voltage Suppressors

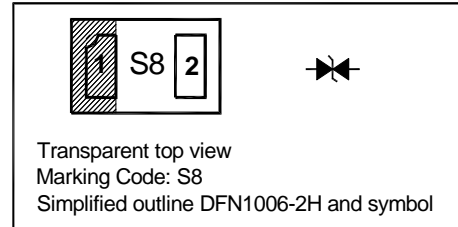
for ESD Protection

### Features

- Bi-direction high reliability
- Low leakage current
- Ultra low capacitance

### PINNING

PIN	DESCRIPTION
1	Anode
2	Anode



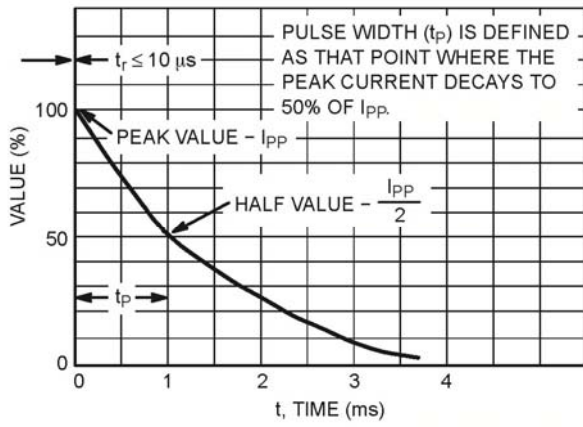
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Pulse Current ( $t_p = 8/20 \mu\text{s}$ )	$I_{PP}$	1.6	A
IEC61000-4-2 (ESD) Air Contact	$V_{ESD}$	$\pm 15$ $\pm 8$	KV
Peak Pulse Power ( $t_p = 8/20 \mu\text{s}$ )	$P_{PK}$	40	W
Operation Temperature Range	$T_j$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

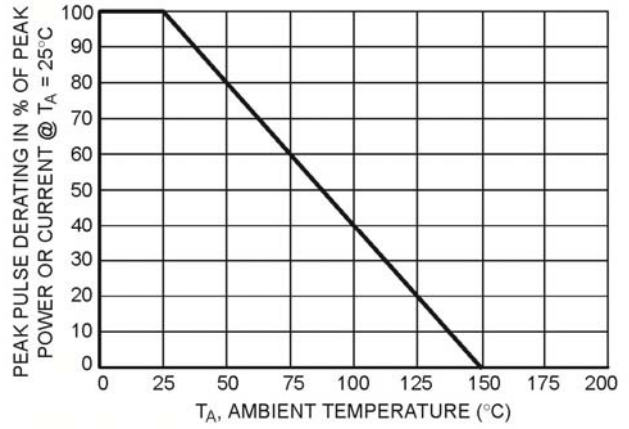
### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	14.5	V
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	18	-	-	V
Reverse Current at $V_{RWM} = 14.5 \text{ V}$	$I_R$	-	-	100	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$ , $t_p = 8/20 \mu\text{s}$	$V_C$	-	-	25	V
Junction Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	$C_j$	-	0.5	-	pF

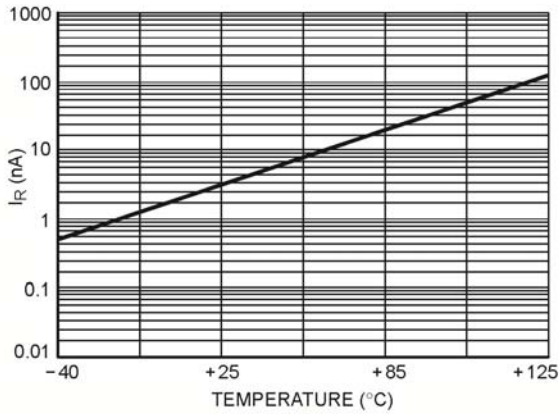
**TOP DYNAMIC**



**Pulse Waveform**



**Pulse Derating Curve**



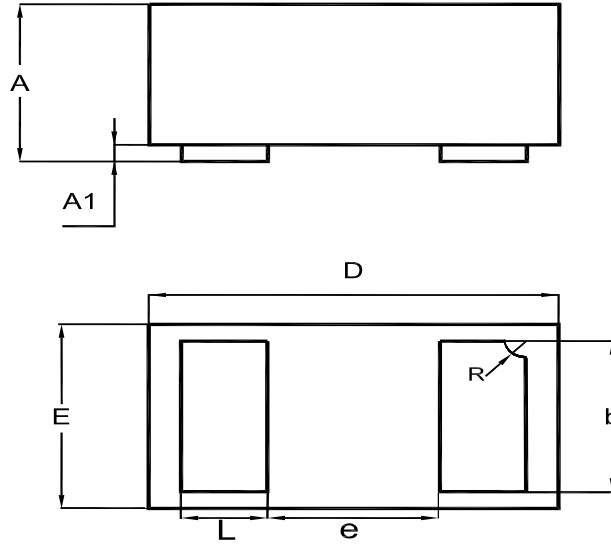
**Typical Leakage Current versus Temperature**

# ESDBL18HP

## PACKAGE OUTLINE

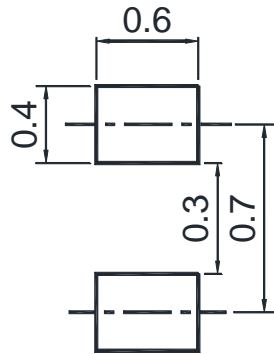
Plastic surface mounted package

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**