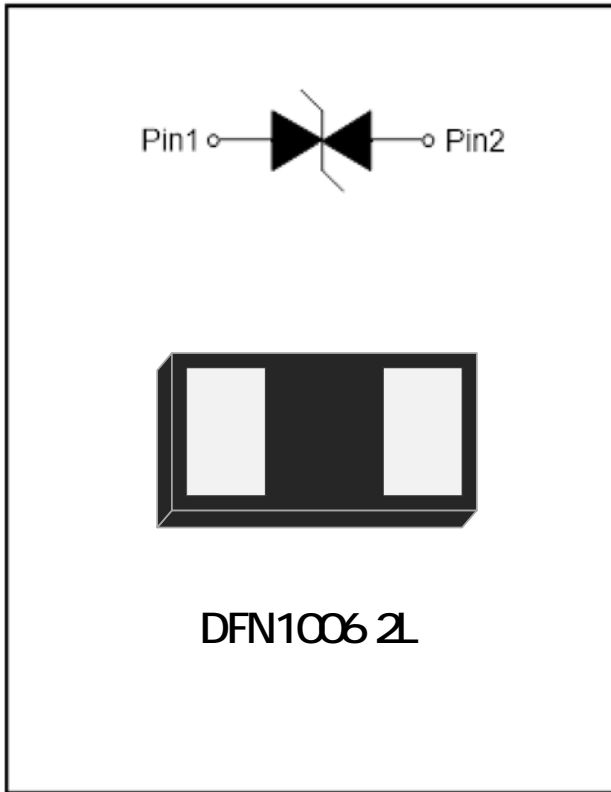


## 1-Line, Bi-directional, Transient Voltage Suppressor



### Features

- Bidirectional protection
- Low leakage current
- Low clamping voltage
- Low peak pulse current

### Applications

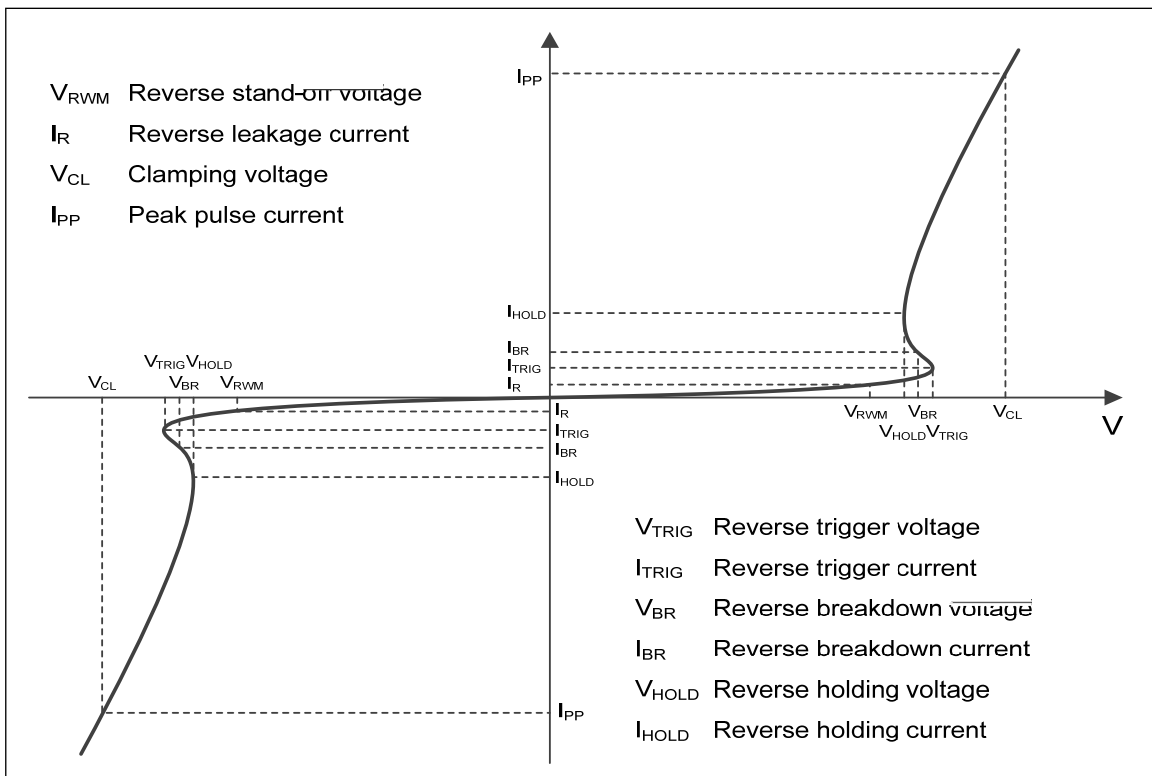
- Data lines
- I/O lines
- Power lines
- Signal lines

### Mechanical Data

- Package: DFN1006 2L
- Lead pitch: 0.5 mm
- Maximum height: 0.25 mm



### Definitions of electrical characteristics





# ESD3V3LBA3

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## Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Ú^æ\Á]~ •^Á] [ , ^!ÁÇçjÁMÁÍDGE •DÁ	ÚjvÁ	FG€Á	YÁ
Ú^æ\Á]~ •^Á&~!;!^}çÁÇçjÁMÁÍDGE •DÁ	QúúÁ	FHÁ	CEÁ
ÒÜÖÁæ&&[!áá}*Ác[ÁQÒÔÎF€€€ÉIÉGÁæ!Ááá•&@æ!*^Á	XóúóÁ	†H€Á	\XÁ
ÒÜÖÁæ&&[!áá}*Ác[ÁQÒÔÎF€€€ÉIÉGÁ&[ }cæ&çÁáá•&@æ!*^Á		†H€Á	
R~ }&cá[ ]Ác^ { ]^!æc~!^Á	VrÁ	ÉÍÍdFGÍÁ	ÍÔÁ
Úc[!æ*^Ác^ { ]^!æc~!^Á	VúvóÁ	ÉÍÍdFÍ€Á	ÍÔÁ

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## Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Ü^Ç^!•^Á { æøá { ~ { Á , [!áá}*Áç[ cæ*^Á	XüvτÁ	XÁ	Á	Á	Á	†H€HÁ
Ü^Ç^!•^Á æ\æ*^Á&~!;!^}çÁ	QúúÁ	~CEÁ	XüvτÁMÁH€HXÁ	Á	Á	€€FÁ
Ü^Ç^!•^Áá!æ\áá [ , }Áç[ cæ*^Á	XóúóÁ	XÁ	QóúóÁMÁF { CEÁ	H€ÍÁ	IÁ	Á
Ô æ { ]á } *Áç[ cæ*^ÁτÁ	XóóÁ	XÁ	QóúóÁMÁFÍCEÁçjÁMÁÉEGDF€€} •ÇVŠÚDÁ	Á	ÍEGÁ	Á
Ö~ }æ { á&Á!^•á•cæ }&^ÁτÁ	ÜöÿpÁ	Á		Á	€€FÍÁ	Á
		XÁ		Á	Í€ÍÁ	Á
Ô æ { ]á } *Áç[ cæ*^ÁτÁ	XóóÁ	XÁ		Á	Í€ÍÁ	Í€ÍÁ
		XÁ		Á	ÍEGÁ	JÁ
R~ }&cá[ ]Á&æ]æ&áçæ }&^Á	ÔrÁ	]ØÁ		Á	G€Á	GÍÁ
R~ }&cá[ ]Á&æ]æ&áçæ }&^Á	ÔrÁ	]ØÁ		Á	FÍÁ	GGÁ

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▷ [c^•KÁ

ÁÇFDEÁ▷ [ ]É!^!^cáçç^Á&~!;!^}çÁ]~|•^ÉÁæ&&[!áá}\*Ác[ÁQÒÔÎF€€€ÉIÉÍÉÁ

▷ [c^•KÁ

FDÁ VŠÚÁ]æ!æ { ^c^!KÁZEÁMÁÍ€ ÉÁç]ÁMÁF€€} •ÉÁç!ÁMÁG } •ÉÁæç^!æ\*á } \*Á , á } á [ , Á-! [ { ÁÍ€ } •Áç [ ÁÍ€ } •ÉÁÜÖÿpÁá•Á&æ|&~|æc^áá-! [ { ÁÍCEÁç [ ÁFÍCEÁ

GDÁ Ô [ ]cæ&çÁáá•&@æ!\*^Á { [ á^ÉÁæ&&[!áá}\*Ác[ÁQÒÔÎF€€€ÉIÉGÁ

HDÁ ▷ [ ]É!^!^cáçç^Á&~!;!^}çÁ]~|•^ÉÁæ&&[!áá}\*Ác[ÁQÒÔÎF€€€ÉIÉÍÉÁ

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## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ÒÜÖHXHŠÓCEHÁ	ØFÁ	CE ] ]!çá { æc^Á€€J	F€€€€Á	F€€€€€Á	I€€€€€Á	Í+!;!^Á

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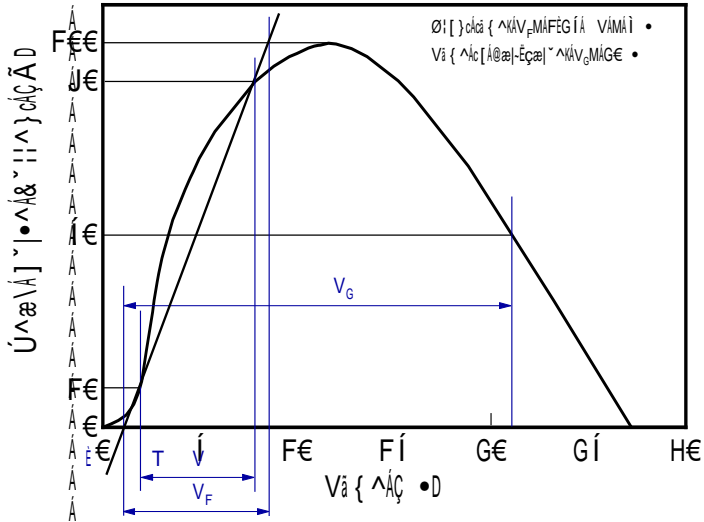
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## Characteristics (Typical)

Fig.1 8/20μs waveform per IEC61000-4-5

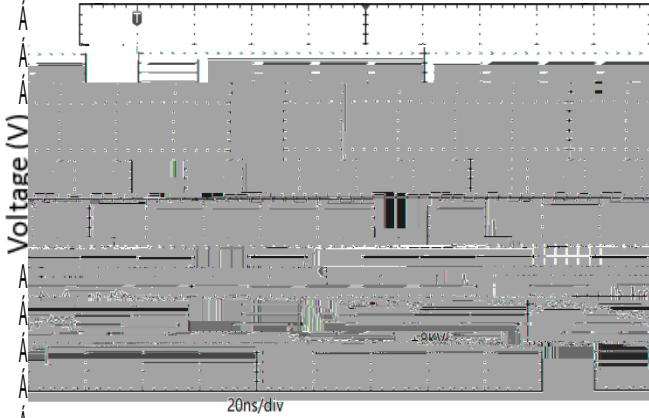



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# ESD3V3LBA3

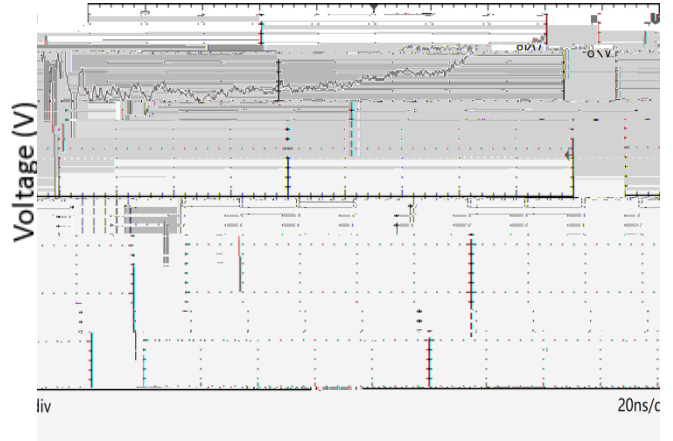
Fig.7 ESD clamping



Time (ns)

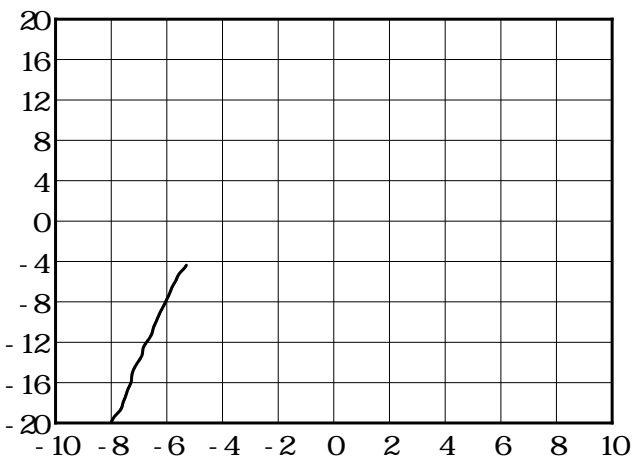
(+8kV contact discharge per IEC61000-4-2)

Fig.8 ESD clamping t



Time (ns)

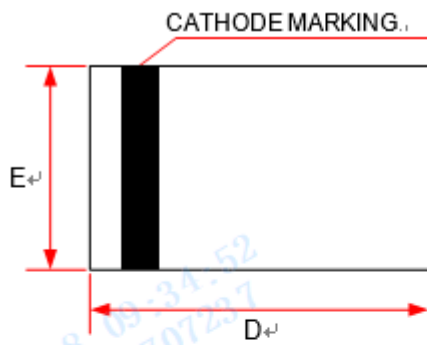
(-8kV contact discharge per IEC61000-4-2)



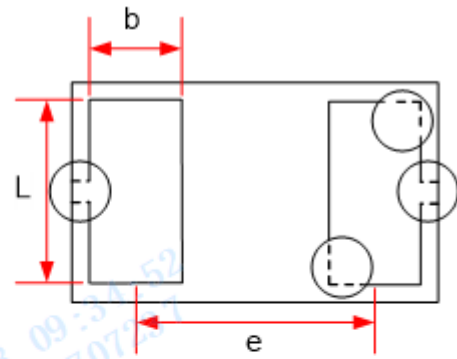


# ESD3V3LBA3

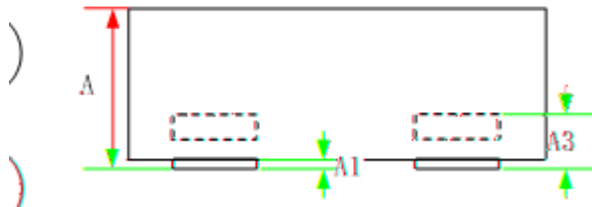
## Outline Dimensions



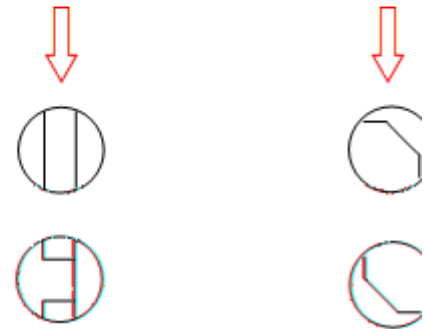
Top View



Bottom View



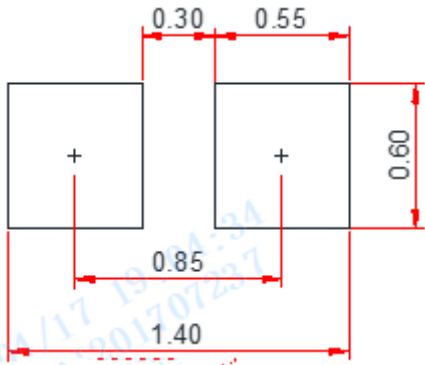
Side View



Symbol

Dimensions in Millimeters

## Recommended PCB Layout



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Disclaimer

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