

# ESD Suppressor 28V Bidirectional DFN1006

ME281B50D02

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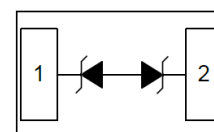
## FEATURE

- IEC 61000-4-2 ESD:  $\pm 15\text{KV}$  (Air)  $\pm 8\text{KV}$  (Contact)
- IEC 61000-4-4 EFT: 20A (5/50ns)
- IEC 61000-4-5 Lightning: 1A (8/20 $\mu\text{s}$ )
- ESD Protection for one Unidirectional Channel
- Low Leakage Current
- Low Clamping Voltage
- Solid-State Silicon-Avalanche Technology



## APPLICATION

- Cellular Handsets and Accessories
- Small Panel Modules
- PDA's
- Portable Devices
- Peripherals



## MAXIMUM RATINGS AND CHARACTERISTICS

Parameter	Symbol	Value	Unit
ESD Voltage per IEC61000-4-2 (Contact discharge)	$V_{\text{ESD}}$	$\pm 8$	KV
ESD Voltage per IEC61000-4-2 (Air discharge)		$\pm 15$	KV
Operating & Storage Temperature Range	$T_J, T_{\text{STG}}$	-55~+150	$^{\circ}\text{C}$

## ELECTRICAL CHARACTERISTICS

Parameter	Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	--	$V_{\text{RWM}}$	--	--	28	V
Reverse Breakdown Voltage	$I_{\text{BR}}=1\text{mA}$	$V_{\text{BR}}$	30	--	36	V
Reverse Leakage Current	$V_{\text{R}}=28\text{V}$	$I_{\text{R}}$	--	--	0.5	$\mu\text{A}$
Clamping Voltage	$I_{\text{PP}}=1\text{A}, t_{\text{p}}=8/20\mu\text{s}$	$V_{\text{C}}$	--	--	50	V
Off State Junction Capacitance	$V_{\text{dc}}=0, f=1\text{MHz}$	$C_{\text{J}}$	--	--	5	pF

Notes:

1.  $T_J=25^{\circ}\text{C}$  unless otherwise specified

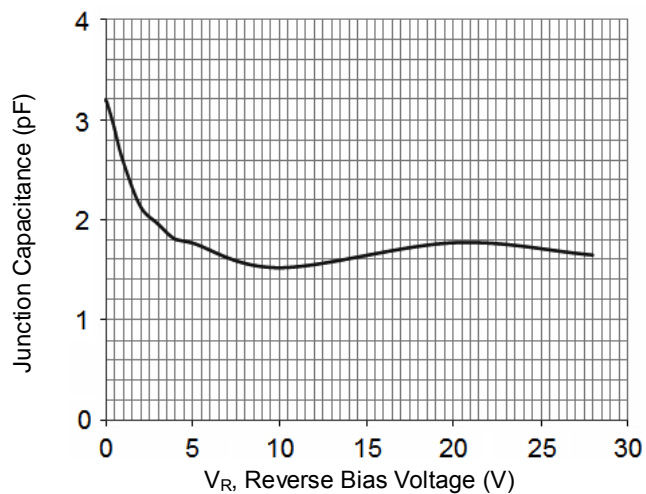
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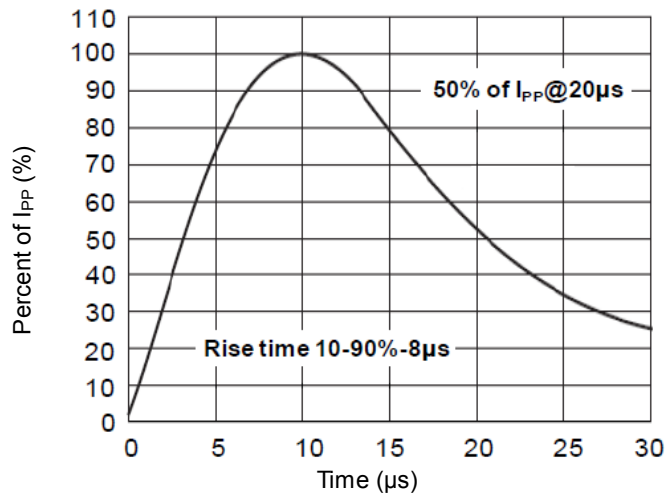
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## CHARACTERISTIC CURVES

Typical Junction Capacitance

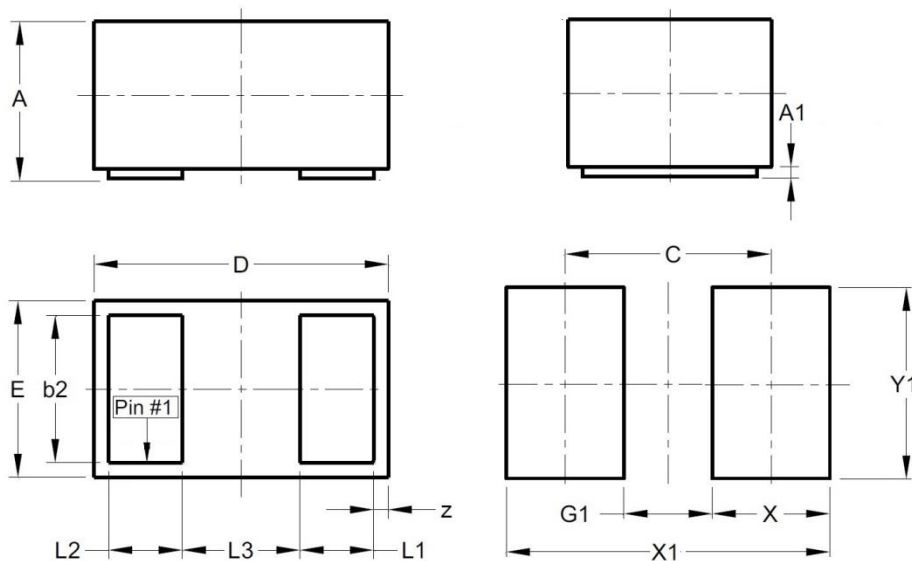


Pulse Waveform



## DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	0.45	0.55
A1	-	0.05
b2	0.45	0.55
D	0.95	1.05
E	0.55	0.65
z	0.10	0.10
L1	0.20	0.30
L2	0.20	0.30
L3	0.40	0.40
C	0.70	0.70
G1	0.30	0.30
X	0.40	0.40
X1	1.10	1.10
Y1	0.60	0.60



\*Specifications subject to change without notice.