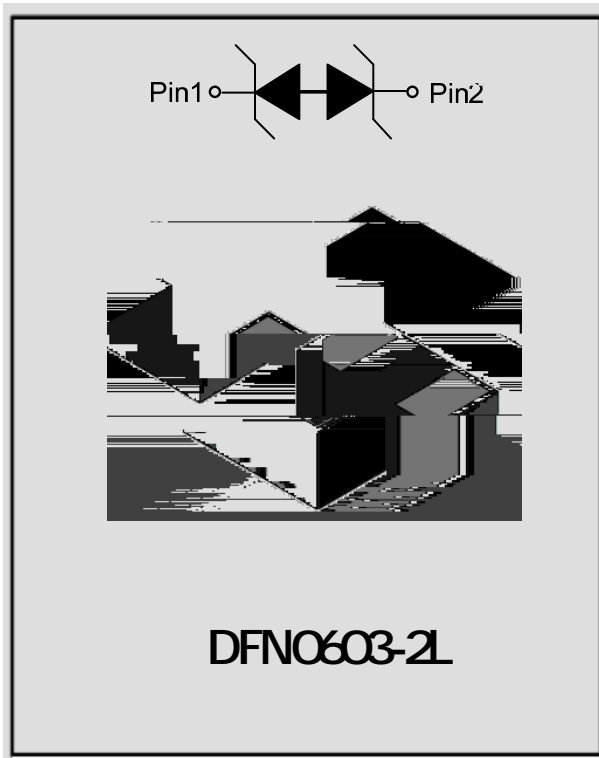


## 1-Line, Bi-directional, Transient Voltage Suppressor



### Features

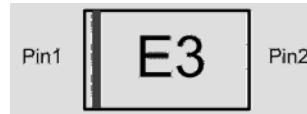
- " 80WUD VPDOO SDFNDJH
- " 6WDQG RII YROWDJH " 9 0D[
- " 7UDQVLHQW SURWHFWLRQ IRU HDFK O
- , (& (6' " N9 FRQWDFW
- , (& ()7 \$ QV
- , (& VXUJH \$ V
- " 80WUD ORZ FDSDFLWDQFH &- S) W
- " /RZ OHDNDJH FXUUHQW
- " /RZ FODPSLQJ YROWDJH
- " 5R+6 &RPSOLDQW

### Applications

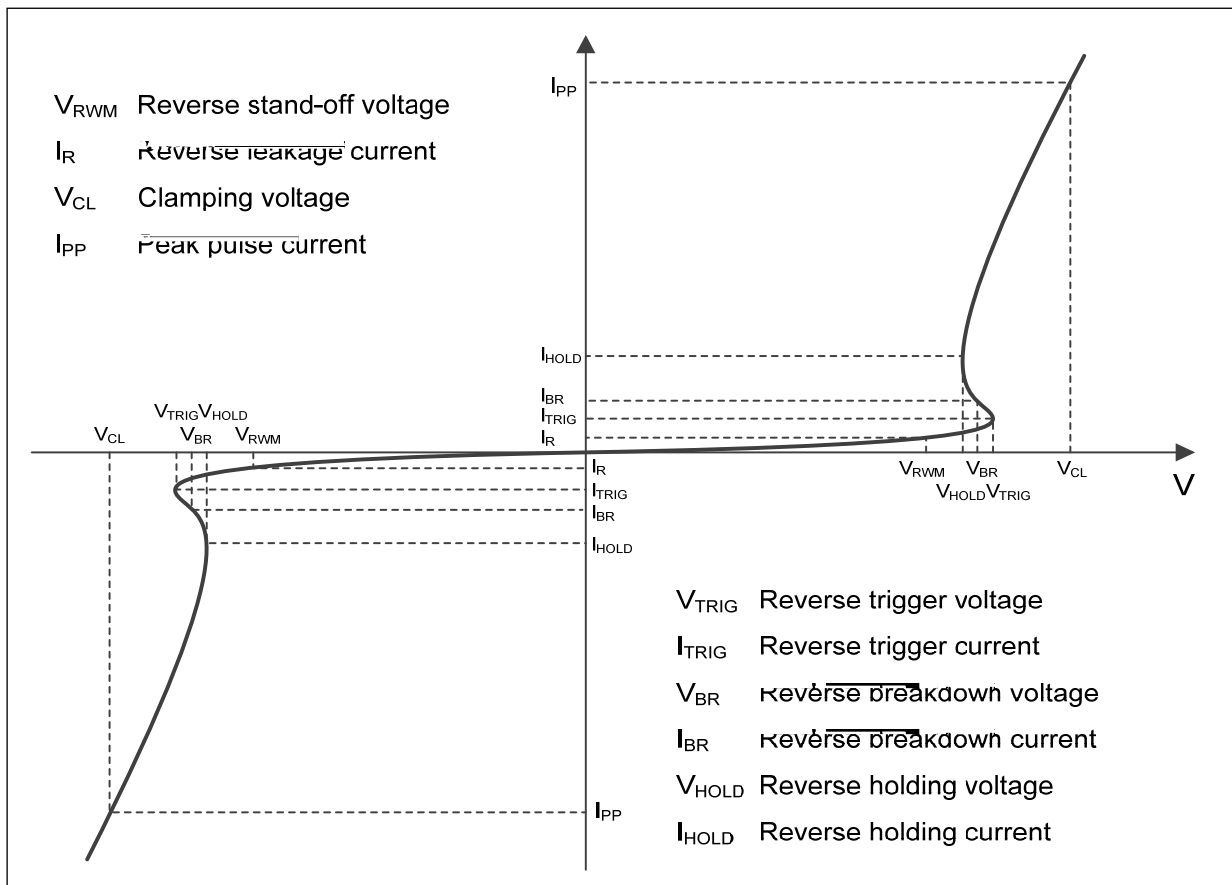
- " &HOOXODU KDQGVHWV
- " 7DEOHV
- " /DSWRSV
- " 2WKHU SRUWDEOH GHYLFHV
- " 1HWZRUN FRPPXQLFDWLRQ GHYLFHV

### Mechanical Characteristics

- " 3DFNDJH ' )1 /
- " &DVH 0DWHULDO 3\*UHHQ' 0ROGLQJ &R
- " 0RLVWXUH 6HQVLWLYLW\ /HYHO SHU
- " 0DUNLQJ WLIROPHH %HORZ



### Definitions of electrical characteristics





# ESD3V3LZBA1

## √Absolute Maximum Ratings 7D f& XQOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	Rating	UNIT
3 HDN SXOVH SRZHV W	3 <sub>SN</sub>		:
3 HDN SXOVH <sub>s</sub> FXUUHQW W	,33		
(6' DFFRUGLQJ WR ,(& DLU GLVFKDUJH	9 <sub>(6'</sub> GLVFKDUJH	"	.9
(6' DFFRUGLQJ WR ,(& FRQWDFW		"	.9
-XQFWLRQ WHPSHUDWXUH	7-		R&
2 SHUDWLQJ WHPSHUDWXUH	7 <sub>23</sub>	a	R&
6 WRUDJH WHPSHUDWXUH	67*	7 a	R&

## √Electrical Characteristics 7D 8QOHVV RWKHUZLVH VSHFLILHG





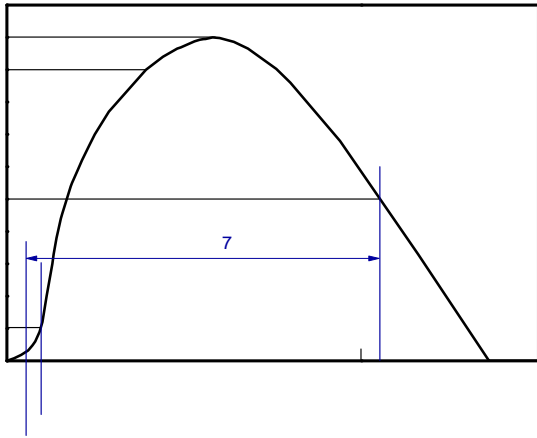
# ESD3V3LZBA1

vTypical Performance Characteristics 7D

X Q O H V V R W K H U Z L V H 6 S H F L I L H

820 s waveform per IEC61000-4-5

Contact discharge current waveform per IEC61000-4-2



Clamping voltage vs. Peak pulse current

Capacitance vs. Reverse voltage

Non-repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature

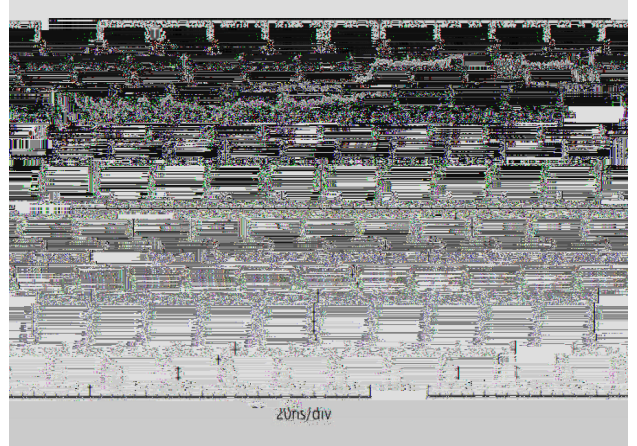


# ESD3V3LZBA1

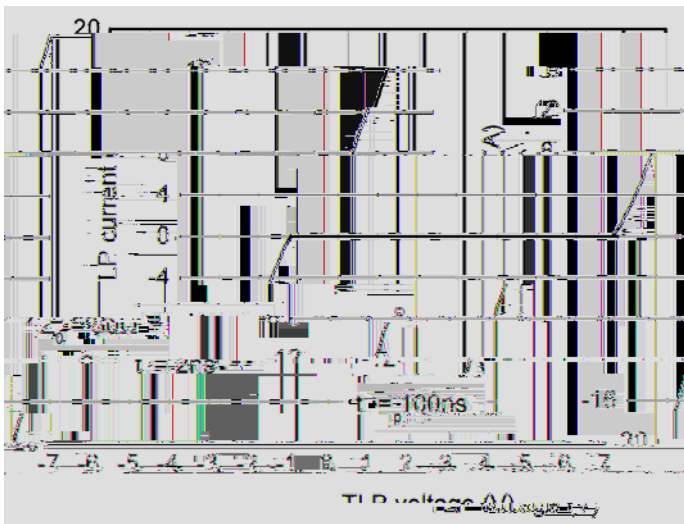
ESD damping  
(+8kV contact discharge per IEC61000-4-2)



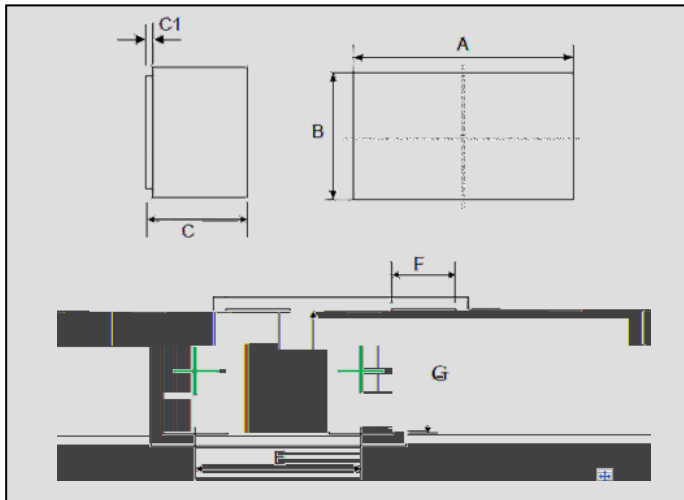
ESD damping  
(-8kV contact discharge per IEC61000-4-2)



TLP Measurement



## vOutline Dimensions

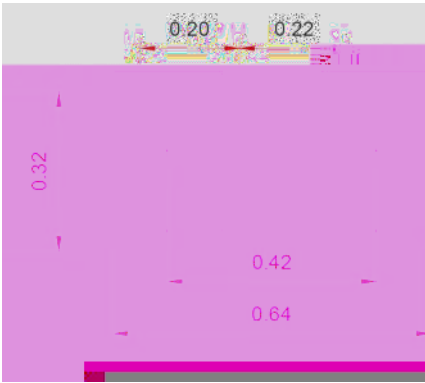


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# ESD3V3LZBA1

## Recommend land pattern (Unit:mm)



### Notes

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met



# ESD3V3LZBA1

## Disclaimer

7KH LQIRUPDWLRQ SGRVNDMCHG ILQ IRKILWHDIHJHQRK-BQJMLH (OHFWURQLF 7HFKQRO  
ULJKW WR PDNH F'JHLVHZLWUKRKKWH QSWFLSUFQKFRV/ RGLWSOD\HG KHUHLp 0WRGHLPSJQR  
RU WQXPEV83DA0 HUHG IRUPDWLRX i0P€GóFP

7KH SURGXFW OLVWHG KHUHLp 0LV GHVHJRW H B QW Rp EHT XLVSHGH Q WWRKURGHYp RHPWKDQG  
HTXLp0 €QW RU GHYLFHV p K&LFK UHTXMKH KLPJX XGFYHIGR€SILRU H DWp€ IRQp DWQpDQ ppx PD  
PHGLFDO LQVWUXPHQW HT WLOD Q Q BRPUDHVRV SOXFOH DU UHDFWRHLO FRQWUHQ  
GRQWURO H-< FAF£FÜH FRp p 0p`0•€€sÅ RQWLJR•&pDLFLV `EÀ0RU GLIDD\0G'U GDQQ00