ESD8D3.3CAT5G

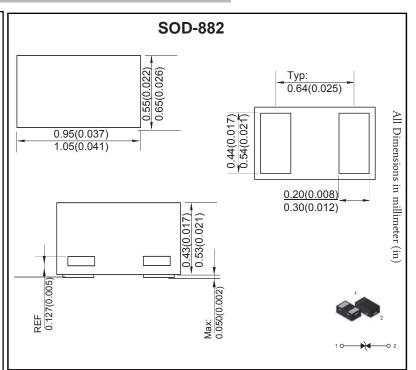
Electrolstatic discharge Protection Devices(ESD)

FEATURES

- •Low Leakage
- •Response Time is Typically < 1 ns
- •ESD Rating of Class 3 (> 16 kV) per Human Body Model
- •IEC61000-4-2 Level 4 ESD Protection
- •These are Pb-Free Devices
- •We declare that the material of product
- •compliance with RoHS requirements.

MECHANICAL DATA

- •Designed to protect voltage sensitive components from ESD and transient.
- •Case style:SOD-882molded plastic



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Rating	Symbol	Value	Unit			
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±25 ±20	kV kV			
ESD Voltage Per Human Body Model 16 kV						
Total Power Dissipation on FR-5 Board (Note 1)	PD	200	mW			
@ T _A =25℃						
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	$^{\circ}$			
Lead Solder Temperature - Maximum (10	TL	260	$^{\circ}$			
Second Duration)						

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0*0.75*0.62 in.

Ordering information

Device	Marking	Shipping
ESD8D3.3CAT5G	ВК	10000/Reel

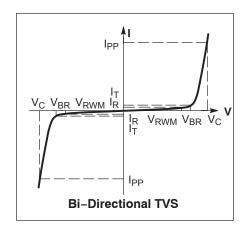
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RATINGS AND CHARACTERISTIC CURVES

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)

Symbol	Parameter						
I _{PP}	Maximum Reverse Peak Pulse Current						
V _C	Clamping Voltage @ I _{PP}						
V _{RWM}	Working Peak Reverse Voltage						
I _R	Maximum Reverse Leakage Current @ V _{RWM}						
V _{BR}	Breakdown Voltage @ I _T						
I _T	Test Current						
P _{pk}	Peak Power Dissipation						
С	Capacitance @ V _R = 0 and f = 1.0 MHz						



ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}		/) @ I _T te 2)	I _T	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I _{PP} (A) (Note 3)	P _{PK} (W) (Note 3)	C (pF) V _R =0V,f=1MHz		Hz
Device	Max	Max	Min	Max	mA	Max	Max	Max	Max	Min	Тур	Max
ESD8D3.3CAT5G	3.3	0.1	5.0	6.5	1.0	7	10	6	60	8	12	16

Other voltage available upon request.

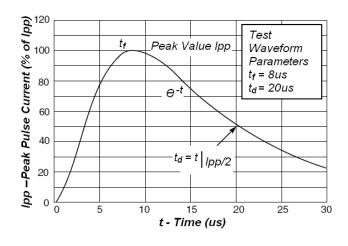


Fig1. Pulse Waveform

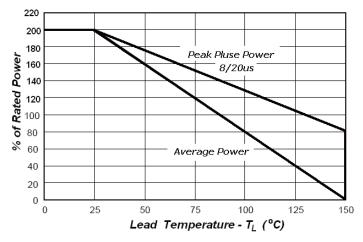


Fig2.Power Derating Curve

 $^{2 \}cdot V_{BB}$ is measured with a pulse test current IT at an ambient temperature of $25 \, ^{\circ}\mathrm{C}$

^{3.} Surge current waveform per Figure 1.



RATINGS AND CHARACTERISTIC CURVES

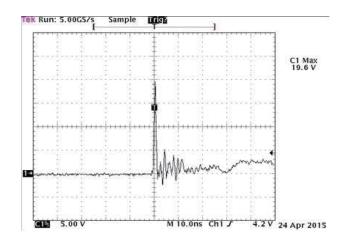


Fig3.Positive 8 kV Contact per IEC61000.4.2

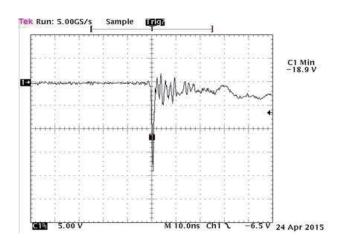


Fig4.Negative 8 kV Contact per IEC61000.4.2

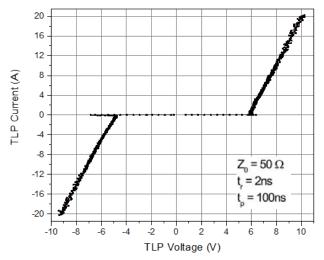


Fig5.TLP Measurement

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