

ESD8D5V0C

ESD8D5V0C Transient Voltage Suppressors ESD Protection Diode

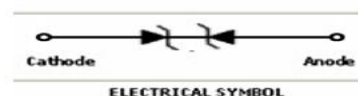
General description

Silicon Diode in a SOD-882 Plastic Package.

FEATURES

- Capacitance Typ. 15pF
- Small Body Outline Dimensions
- Low Leakage Current
- ESD Rating of Class 3 (>16kV) per Human Body Model
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish

Green Product



Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

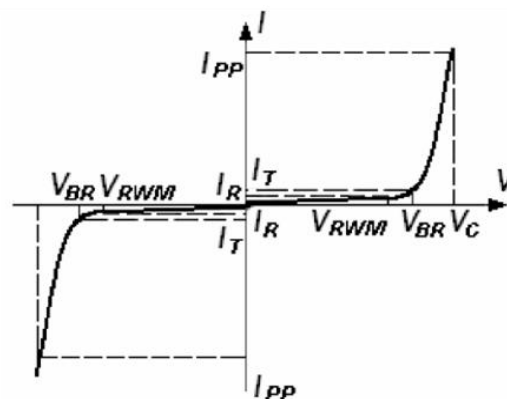
Symbol	Parameter	Value	Units
PD	Total Power Dissipation on FR-5 Broad	150	mW
T _L	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{opr}	Max operation Temperature Range	+125	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±25 ±25	KV

Device Marking:

Device Type	Marking	Shipping
ESD8D5V0C	C *	10,000/Reel

Electrical Parameter

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}
I _T	Test Current
V _{BR}	Breakdown Voltage @ I _T



V1, Dec,2022

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Device Type	V _{RWM} (Volts)	I _R @ V _{RWM} (μA)	V _{BR} @ I _T (Note 1) (Volts)		I _T (mA)	I _{PP+} (A)	V _C @ Max I _{PP+} (Volts)	P _{PK+} (W)	C @ V _R = 0V, f = 1MHz (pF)
	Max	Max	Min	Max		Max	Max	Max	Typ.
ESD8D5V0C	5.0	0.5	5.6	---	1.0	5	12	85	15

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Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

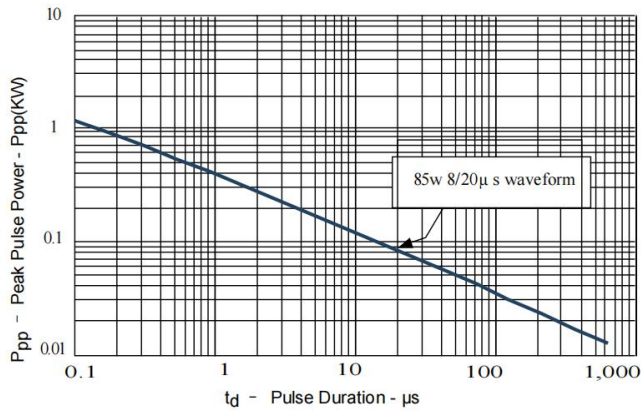


Fig.2 Clamping Voltage vs. I_{pp}

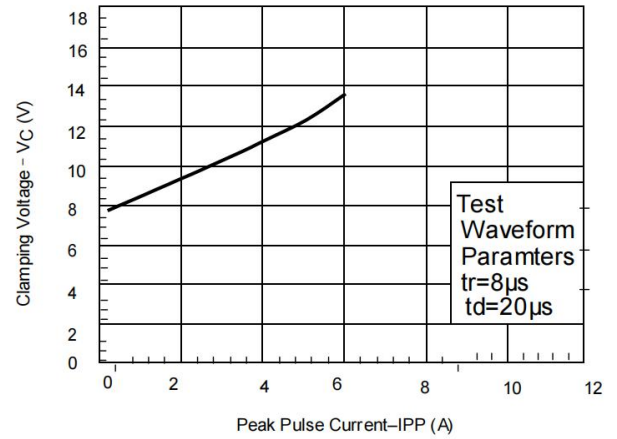


Fig.3 Pulse Waveform-8/20 μs

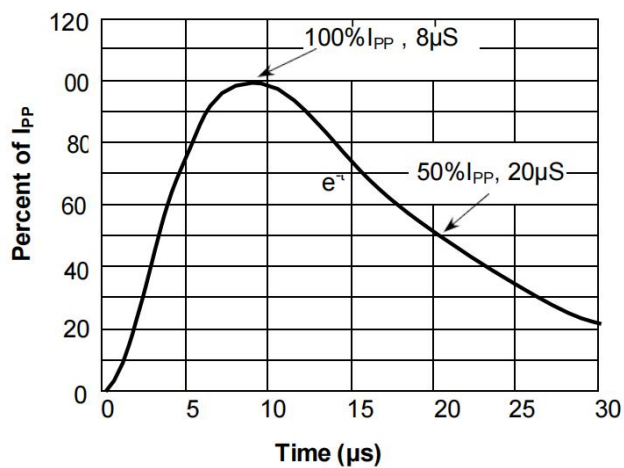
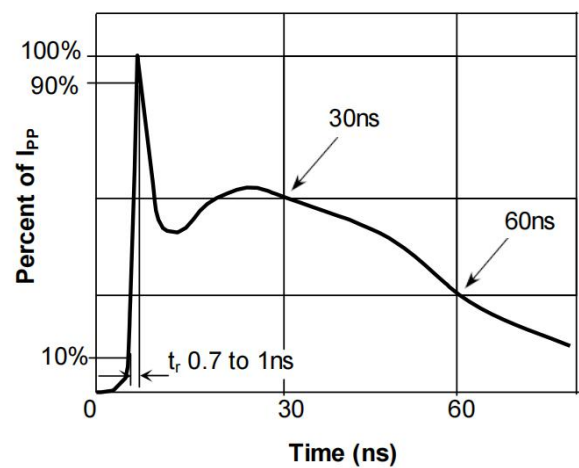
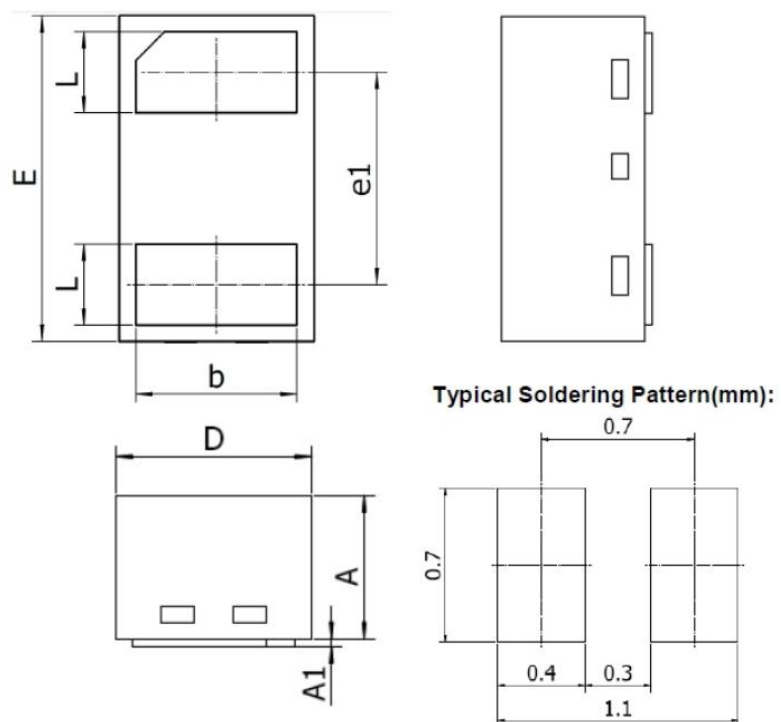


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



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SOD-882 Package Outline



DIM	MILLIMETERS	
	MIN	MAX
A	0.40	0.55
A1	--	0.05
b	0.45	0.55
D	0.55	0.65
E	0.95	1.05
e1	Typ.0.65	
L	0.20	0.30

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