

ESD8D5V0C Transient Voltage Suppressors ESD Protection Diode

General description

Silicon Diode in a SOD-882 Plastic Package.

FEATURES

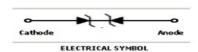
- Capacitance Typ. 15pF
- Small Body Outline Dimensions
- Low Leakage Current
- ESD Rating of Class 3 (>16kV) per Human Body Model
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish

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

Symbol	Parameter	Value	Units
PD	Total Power Dissipation on FR-5 Broad	150	mW
TL	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
TOPR	Max operation Temperature Range	+125	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±20 ±25	KV

Green Product



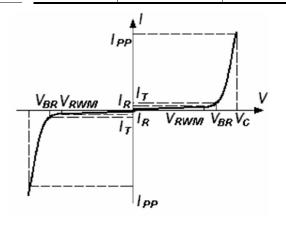


Device Marking:

Device Type	Marking	Shipping		
ESD8D5V0C		10,000/Reel		

Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	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



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

Device Type	V _{RWM} (Volts)	Ir @ Vrwm (µA)	(Not	@ Ι τ te 1) olts)	I _T (mA)	I PP+ (A)	Vc @ Max IPP+ (Volts)	Р РК+ (W)	C @ $\mathbf{V}_{R} = 0V, f = 1MHz$ (pF)
	Max	Max	Min	Max		Max	Max	Max	Тур.
ESD8D5V0C	5.0	0.5	5.6		1.0	5	12	60	15



SURGE CURRENT WAVEFORM:

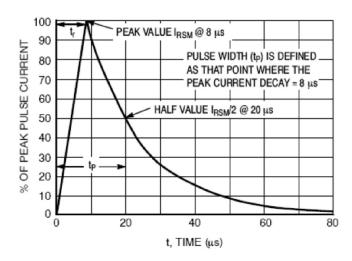
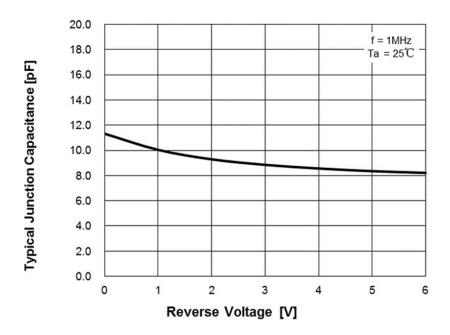


Figure 1. 8 x 20 μs Pulse Waveform

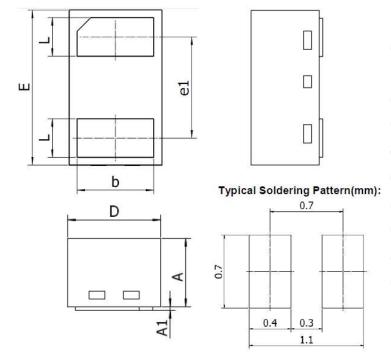
CAPACITANCE CURVE:



ESD8D5V0C



SOD882 Package Outline



DIM	MILLIM	ETERS	INCHES		
	MIN	MAX	MIN	MAX	
Α	0.46	0.50	0.018	0.020	
A1	95785	0.03		0.001	
b	0.45	0.55	0.018	0.022	
D	0.55	0.65	0.022	0.026	
Е	0.95	1.05	0.037	0.041	
e1	Тур. 0.65		Тур.	0.026	
L	0.20	0.30	0.008	0.012	



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