

# ESD8LM5V0C Transient Voltage Suppressors ESD Protection Diode

#### **General description**

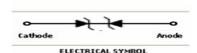
Silicon Diode in a SOD-882 Plastic Package.

#### **FEATURES**

- Capacitance Typ. 3.5pF
- Low Clamping voltage.
- Small Body Outline Dimensions
- Low Leakage Current
- Response Time is Typically < 1ns</li>
- 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<sub>A</sub> = 25°C unless otherwise noted )

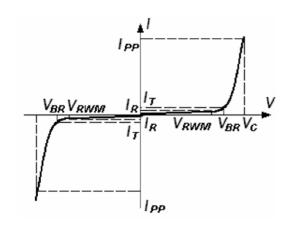
Symbol	Parameter	Value	Units
PD	Total Power Dissipation on FR-5 Broad	150	mW
TL	Max Lead Solder Temperature range (10 Second Duration)	260	°C
$T_{\text{stg}}$	Storage Temperature Range	-55 to +150	°C
TJ	Junction Temperature	+125	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±15 ±12	KV
EFT	IEC61000-4-4	40	Α
ESD	Per Human Body Model	16	KV

#### **Device Marking:**

Device Type	Marking	Shipping
ESD8LM5V0C	Q5 or 5CU	10,000/Reel

#### **Electrical Parameter**

Parameter		
Maximum Reverse Peak Pulse Current		
Clamping Voltage @ I <sub>PP</sub>		
Working Peak Reverse Voltage		
Maximum Reverse Leakage Current @ V <sub>RWM</sub>		
Test Current		
Breakdown Voltage @ I <sub>T</sub>		



#### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Device Type	V <sub>RWM</sub> (Volts)	Ir <b>@ V</b> rwm (μΑ)	(No	@ <b>Ι</b> τ te 1) olts)	I <sub>T</sub> (mA)	Vc @ Max IPP (Volts)	I <sub>PP</sub> * (A)	C @ <b>V</b> <sub>R</sub> = 0V, f = 1MHz (pF)
	Max	Max	Min	Max		Max	Max	Тур.
ESD8LM5V0C	5.0	1	5.6	11.0	1.0	13	3.5	3.5

<sup>\*</sup> Surge current waveform per Figure 1.

Note 1: VBR is measured with a pulse test current IT at an ambient temperature of 25°C.



#### **SURGE CURRENT WAVEFORM:**

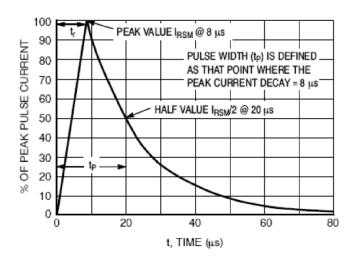
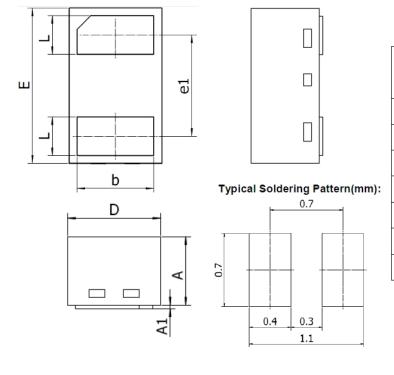


Figure 1. 8 x 20 µs Pulse Waveform

#### **SOD882 Package Outline**



DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
Α	0.46	0.50	0.018	0.020	
A1		0.03		0.001	
b	0.45	0.55	0.018	0.022	
D	0.55	0.65	0.022	0.026	
E	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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