

ESD11D5V0C

ESD11D5V0C Transient Voltage Suppressors ESD Protection Diode

General description

Silicon Diode in a DFN0603 Package.

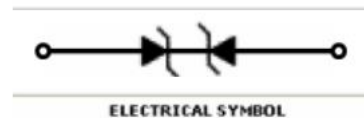
FEATURES

- Capacitance Typ. 15pF
- Small Body Outline Dimensions
- Low Leakage Current
- Response Time is Typically < 1ns
- ESD Rating of Class 3 (>16kV) per Human Body Model
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Weight: approx. 0.24mg

Green Product



DFN0603 Package

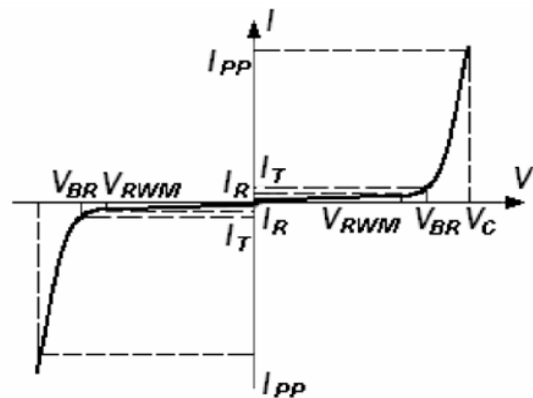


Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

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 _J	Junction Temperature	+150	°C
ESD	IEC61000-4-2 Air Discharge	± 15	KV
	Contact Discharge	± 8	
EFT	IEC61000-4-4	40	A
ESD	Per Human Body Model	16	KV

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



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)	V _C @ I _{PP} *=1A (Volts)	V _C @ Max I _{PP} (Volts)	Max I _{PP} * (A)	C @ V _R = 0V, f = 1MHz (pF)
	Max	Max	Min	Max		Max	Max		Typ.
ESD11D5V0C	5.0	0.5	5.6	---	1.0	9.8	12.5	5.5	15

SURGE CURRENT WAVEFORM:

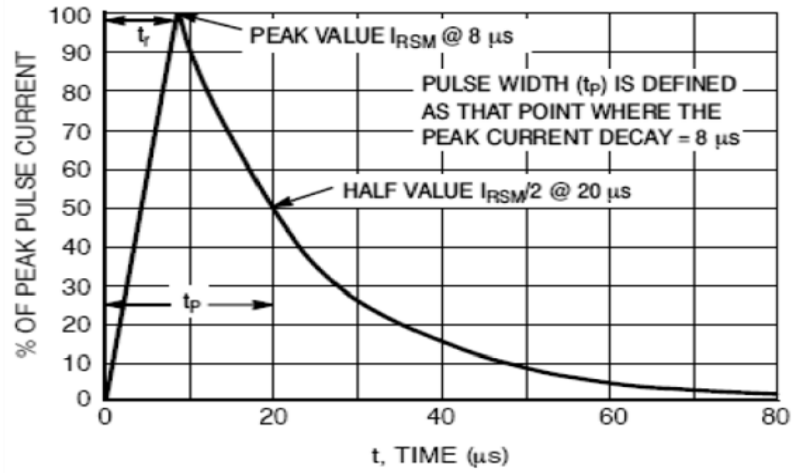
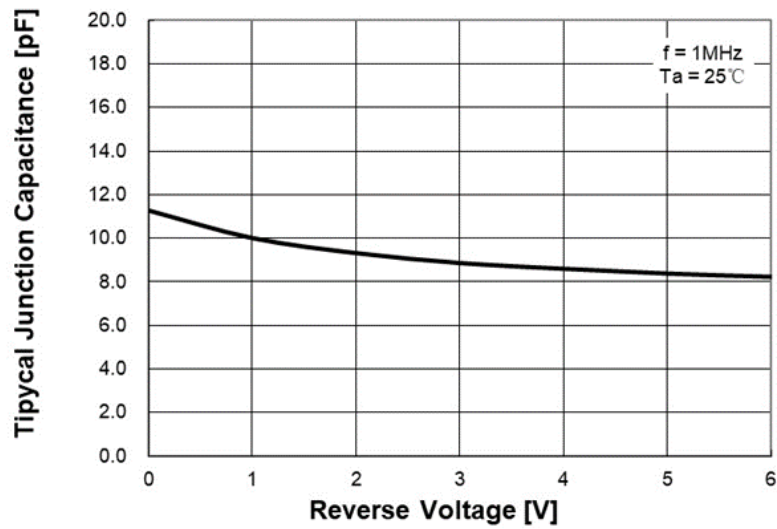


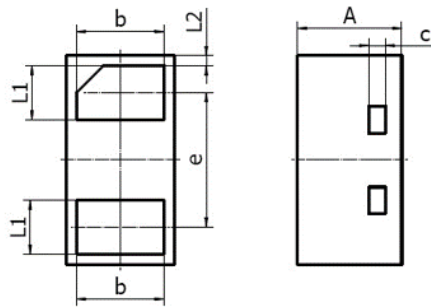
Figure 1. 8 x 20 μs Pulse Waveform

CAPACITANCE CURVE:

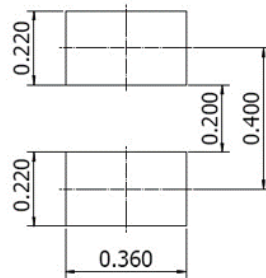


ESD11D5V0C

DFN0603 Package Outline



Suggested Pad Layout



DIM ↵	MILLIMETERS ↵		INCHES ↵	
	MIN ↵	MAX ↵	MIN ↵	MAX ↵
A ·	0.27 ↵	0.35 ↵	0.011 ↵	0.013 ↵
D ·	0.57 ↵	0.67 ↵	0.022 ↵	0.026 ↵
E ·	0.27 ↵	0.37 ↵	0.011 ↵	0.015 ↵
b ·	0.225 ↵	0.295 ↵	0.009 ↵	0.012 ↵
c ·	0.050REF ↵		0.002REF ↵	
e ·	0.365 ↵	0.435 ↵	0.014 ↵	0.017 ↵
L1 ↵	0.125 ↵	0.195 ↵	0.005 ↵	0.008 ↵
L2 ↵	0.030REF ↵		0.001REF ↵	

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