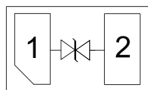


Features

68W (8/20 μ s) Peak Pulse Power
 Low Capacitance ESD Protection
DFN1006-2 Package
 RoHS Compliant
 Matte Tin Lead finish (Pb-Free)
 Protect One High Speed Data Line
 Meet IEC61000-4-2 Level 4:

Contact Discharge > 25kV
 Air Discharge > 25kV

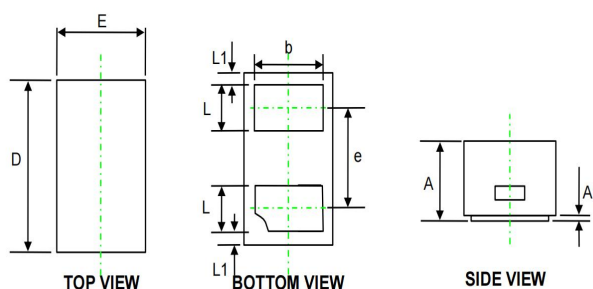
Circuit Diagram



Applications

Communication System
 Portable Instrumentation
 Audio and Video Equipment
 Computers and Peripherals
 USB 1.1, USB 1.0 Ports

DFN1006-2



Symbol	Dimensions in Millimeters (mm)		
	Min.	Typ.	Max.
A	0.44	0.47	0.50
A1	0.00	0.03	0.05
D	0.95	1.00	1.08
E	0.55	0.60	0.68
b	0.40	0.50	0.60
e	-	0.65	-
L	0.20	0.25	0.30
L1	0.05 REF.		

Dimensions in inches and (millimeters)

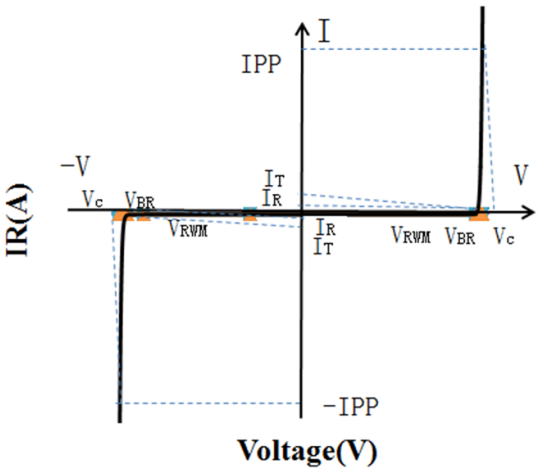
Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	68	W
IPP	Peak Pulse Current	5	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	25	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	25	kV
TJ	Junction Temperature	-55 to +150	°C
TSTG	Storage Temperature	-55 to +150	°C

PESDNC2FD5VBS

Portion Electronics Parameter

Symbol	Parameter
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_c	Clamping Voltage @ I_c



Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$VRWM$	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	5.7		9	V
I_R	Reverse Leakage Current	$VRWM = 5\text{V}$			0.1	μA
V_c	Clamping Voltage	$I_{PP} = 1\text{A}$ (8/20 μs)			12	V
V_c	Clamping Voltage	$I_{PP} = 5\text{A}$ (8/20 μs)			17	V
C_J	Capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$	8	8.9	15	pF

RATING AND CHARACTERISTIC CURVES (PESDNC2FD5VBS)

SURGE CURRENT WAVEFORM:

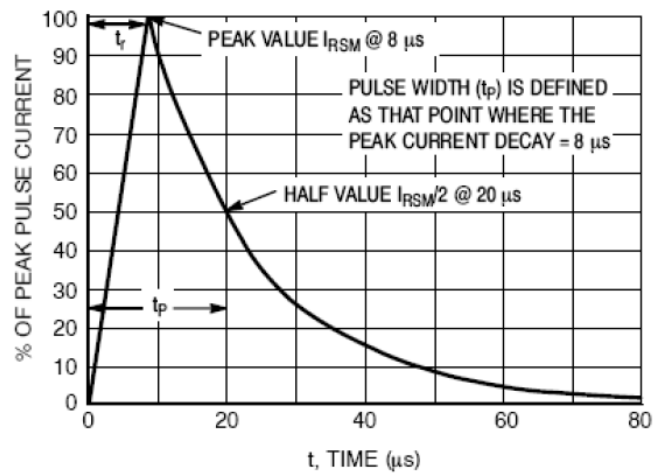
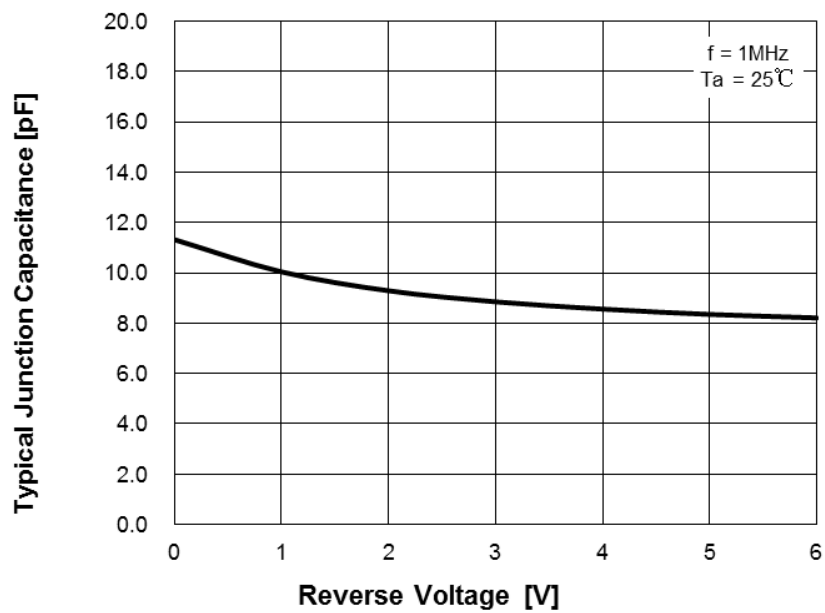


Figure 1. 8 x 20 μs Pulse Waveform

CAPACITANCE CURVE:



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [ESD Suppressors / TVS Diodes](#) *category:*

Click to view products by [GOODWORK](#) *manufacturer:*

Other Similar products are found below :

[60KS200C](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [JAN1N6461](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#) [SMBJ33CATR](#)
[SMBJ8.0A](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-HF](#) [3.0SMCJ33CA-F](#)
[3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JAN1N6472](#) [JANTX1N6052A](#) [JANTX1N6462](#) [D3V3Q1B2DLP3-7](#) [DRTR5V0U4SL-7](#) [SCM1293A-](#)
[04SO](#) [ESD200-B1-CSP0201 E6327](#) [ESD101-B1-02EL E6327](#) [AOZ8808DI-03](#) [5KP48A](#) [5KP90A](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#)
[P6KE120A](#) [P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#) [SA8.5A](#) [SA5.0CA](#)
[SA18A](#) [SA130A](#) [SA11CA](#) [SMLJ40CA-TP](#) [SMF22A-TP](#)