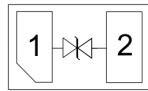


Features

- 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

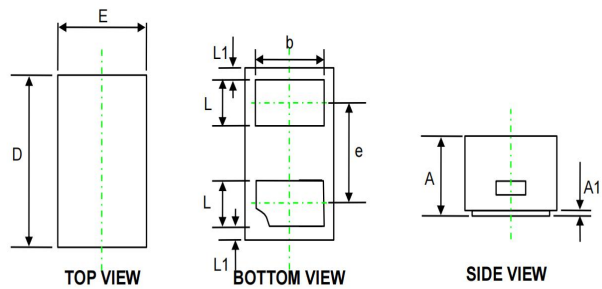
Circuit Diagram



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)

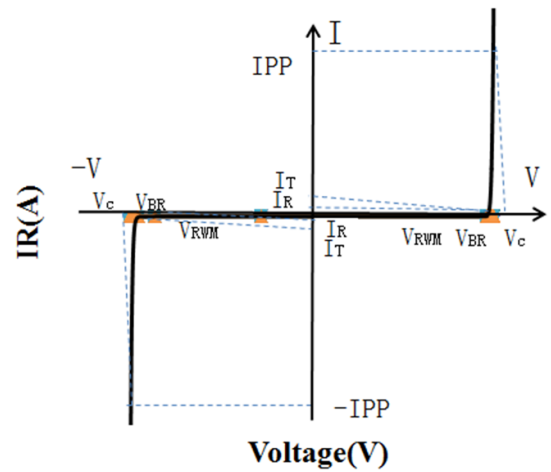
Maximum Ratings (Ta = 25°C)

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
V_{RWM}	Reverse Working Peak Voltage				5	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	5.7		9	V
I_R	Reverse Leakage Current	$V_{RWM} = 5\text{V}$			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:

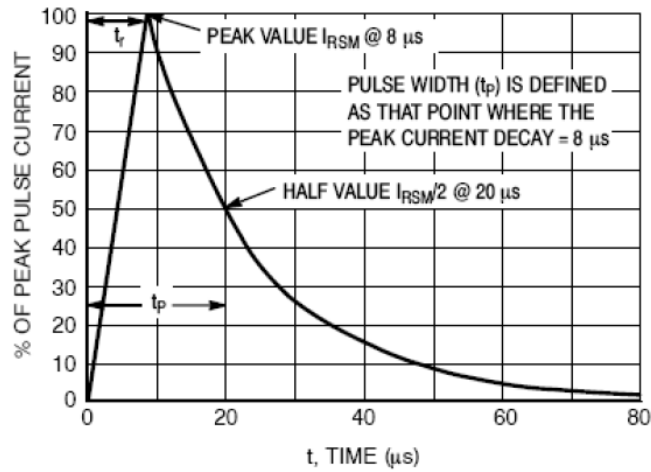


Figure 1. 8 x 20 μs Pulse Waveform

CAPACITANCE CURVE:

