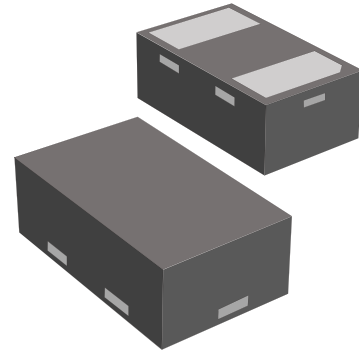


## » Features

- 1200Watts peak pulse power ( $t_p = 8/20\mu s$ )
- Uni-directional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    - Air discharge:  $\pm 30KV$
    - Contact discharge:  $\pm 30KV$
  - IEC61000-4-4 (EFT) 40A (5/50ns)
  - IEC61000-4-5 (Lightning) 36A (8/20us)



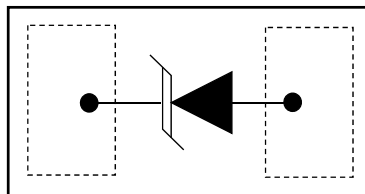
## » Applications

- Computer
- Mobile Phones and Accessories
- Digital Cameras
- Personal Digital Assistants

## » Mechanical Data

- Package: DFN1006
- UL Flammability Classification Rating 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

## » Schematic & PIN Configuration



DFN1006

### » Absolute Maximum Ratings

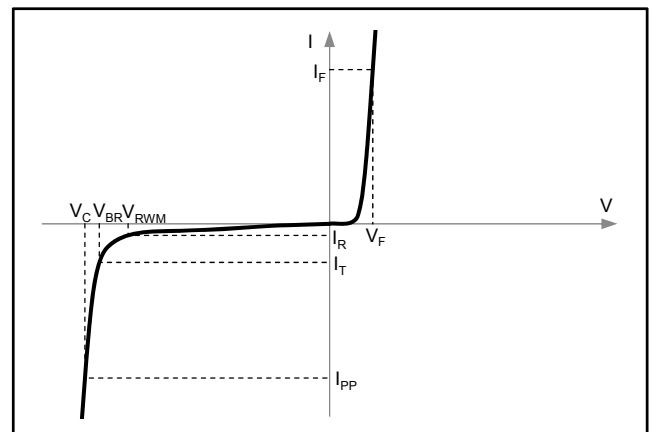
Parameter	Symbol	Value	Units
Reverse Working Voltage	$V_{RWM}$	20	V
Peak Pulse Power (8/20 $\mu$ s)	$P_{PP}$	1200	W
Peak Pulse Current (8/20 $\mu$ s)	$I_{PP}$	36	A
ESD per IEC 61000-4-2 (Air)	$V_{ESD-Air}$	30	KV
ESD per IEC 61000-4-2 (Contact)	$V_{ESD-Contact}$	30	KV
Lead Soldering Temperature	$T_L$	260(10s)	$^{\circ}C$
Operating Temperature Range	$T_J$	-55 to 125	$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to 150	$^{\circ}C$

### » Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	21	23.5		V
Reverse Leakage Current	$I_R$	$V_{RWM} = 20V$			1	$\mu A$
Clamping Voltage	$V_{C1}$	$I_{PP1} = 10A, 8/20\mu s$		26		V
Clamping Voltage	$V_C$	$I_{PP} = 36A, 8/20\mu s$		30		V
Junction Capacitance	$C_J$	$V_{DC} = 0V, f = 1MHz$		70		pF

### » Electrical Parameters

Symbol	Definition
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current



» Typical Characteristics

Fig.1 - Peak Pulse Power Rating

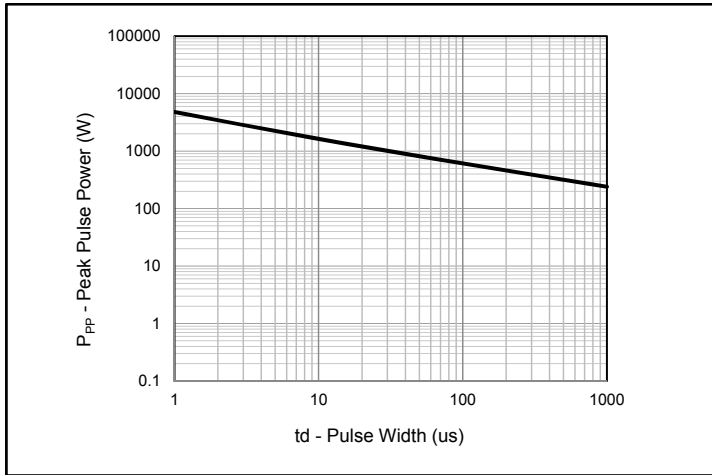


Fig.2 - Pulse Derating Curve

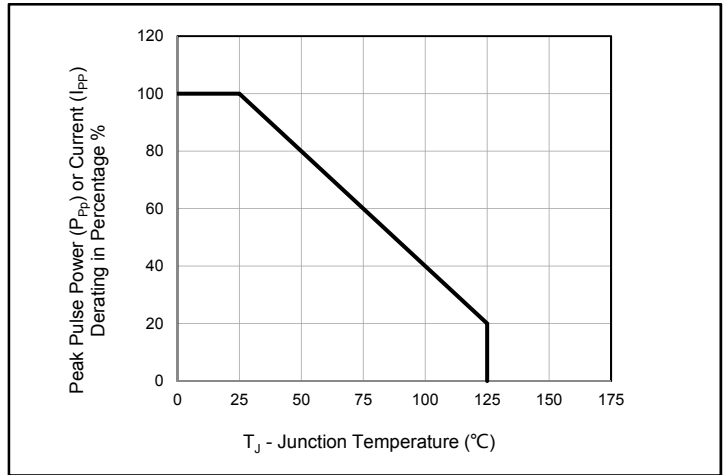


Fig.3 - 8/20us Pulse Waveform

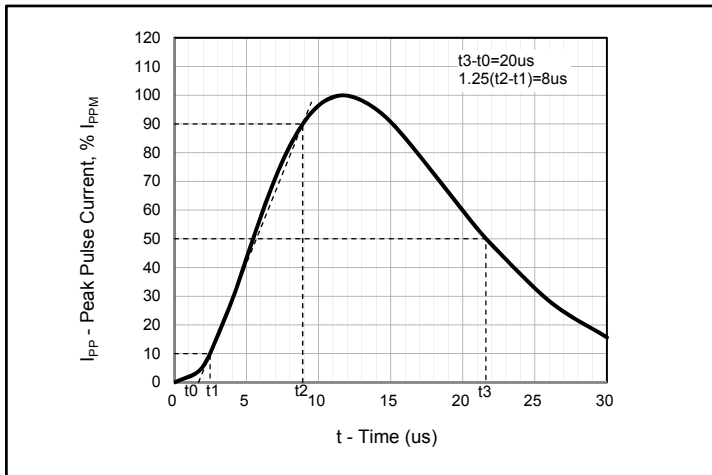
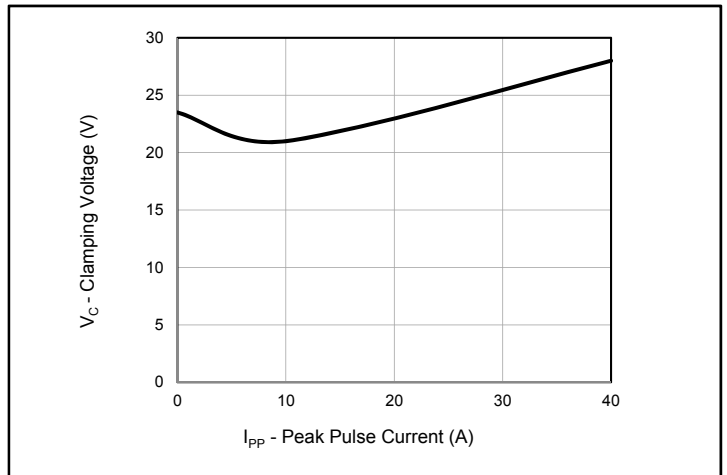
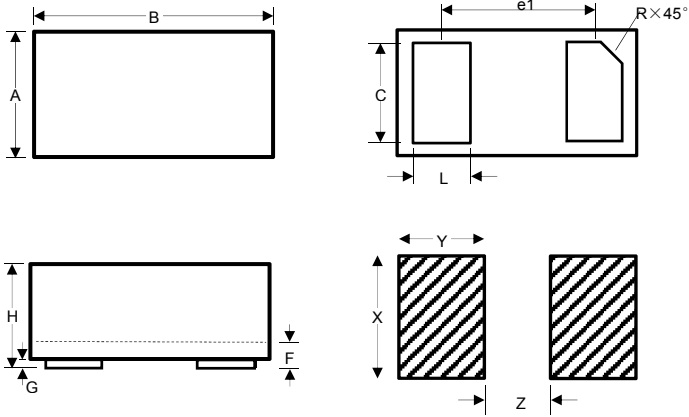


Fig.4 - Clamping Voltage

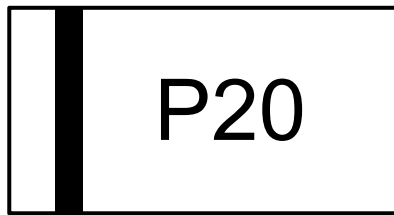


» Outline Drawing



DFN1006						
SYMBOL	Millimeters			Inches		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.55	0.6	0.65	0.022	0.024	0.026
B	0.95	1	1.05	0.037	0.039	0.041
C	0.45	0.5	0.55	0.018	0.02	0.022
L	0.2	0.25	0.3	0.008	0.01	0.012
e1		0.65			0.026	
H	0.45	0.5	0.55	0.018	0.02	0.022
R	0.07	0.12	0.17	0.003	0.005	0.007
X		0.6			0.024	
Y		0.5			0.02	
Z		0.3			0.012	

» Marking



Marking Code: P20

» Ordering Information

Order Code	Package	Base Quantity	Delivery Mode
BDFN2A201V	DFN1006	10000	Tape and Reel

## 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 [Bourne](#) manufacturer:*

Other Similar products are found below :

[60KS200C](#) [D18V0L1B2LP-7B](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#)  
[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)  
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)  
[ESD200-B1-CSP0201 E6327](#) [SM12-7](#) [CEN955 W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)  
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)  
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)