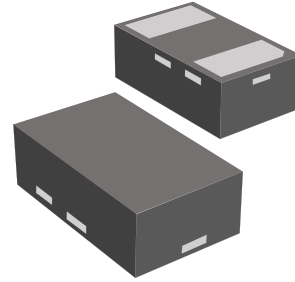


»Features

- 3500Watts 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) 80A (8/20us)



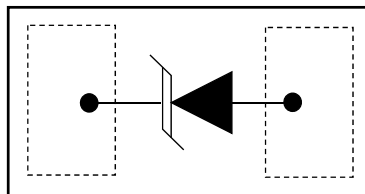
»Applications

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

»Mechanical Data

- Package: DFN1610
- UL Flammability Classification Rating 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

»Schematic & PIN Configuration



DFN1610

»Absolute Maximum Ratings

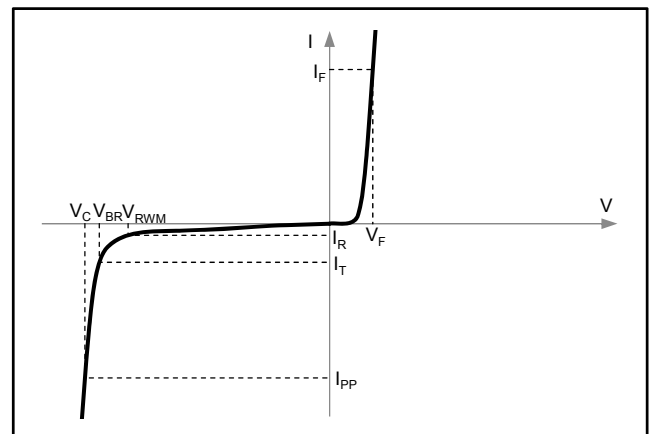
Parameter	Symbol	Value	Units
Reverse Working Voltage	V_{RWM}	20	V
Peak Pulse Power (8/20 μ s)	P_{PP}	3500	W
Peak Pulse Current (8/20 μ s)	I_{PP}	80	A
ESD per IEC 61000-4-2 (Air)	$V_{ESD-Air}$	30	KV
ESD per IEC 61000-4-2 (Contact)	$V_{ESD-Contact}$	30	KV
Lead Soldering Temperature	T_L	260(10s)	$^{\circ}C$
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}	$I_T = 1mA$	22	25		V
Reverse Leakage Current	I_R	$V_{RWM} = 20V$			1	μA
Clamping Voltage	V_C	$I_{PP} = 80A$, 8/20 μ s		38		V
Junction Capacitance	C_J	$V_{DC} = 0V$, $f = 1MHz$		200		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

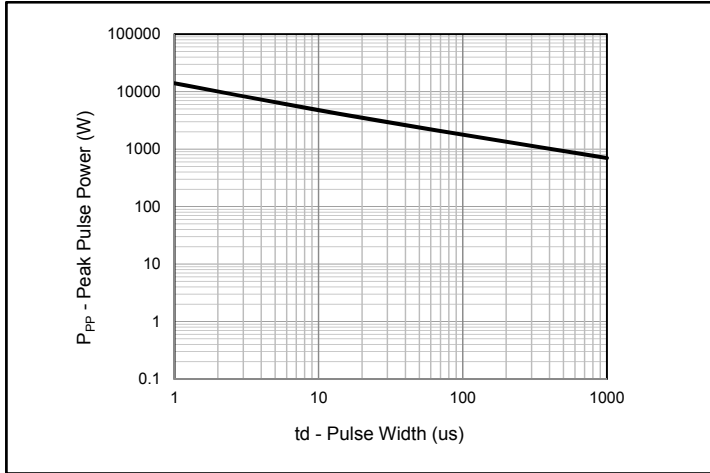


Fig.2 - Pulse Derating Curve

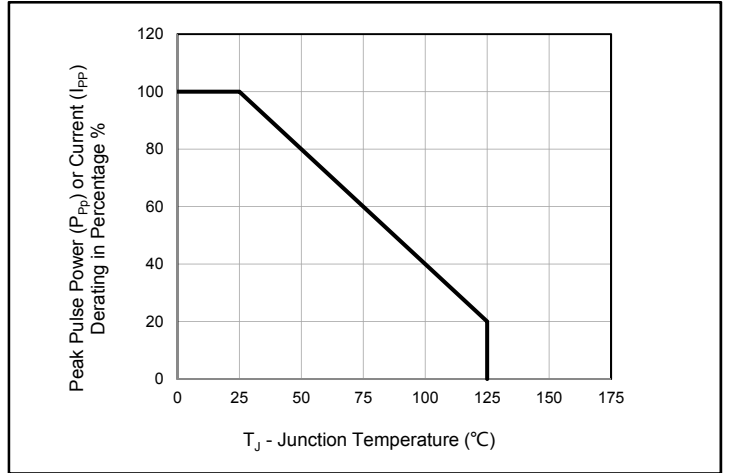


Fig.3 - 8/20us Pulse Waveform

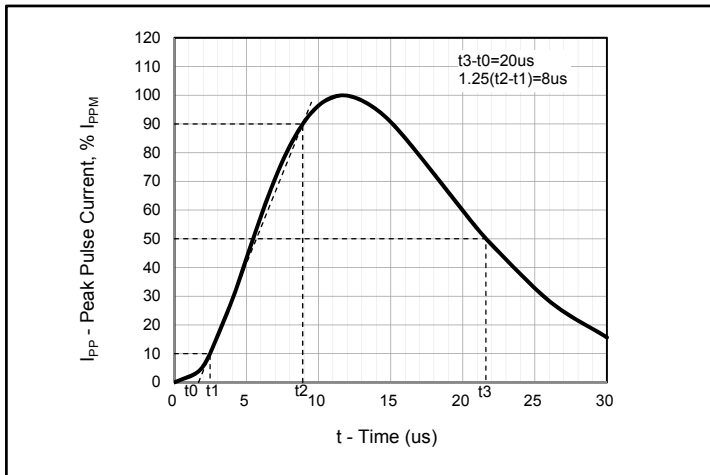
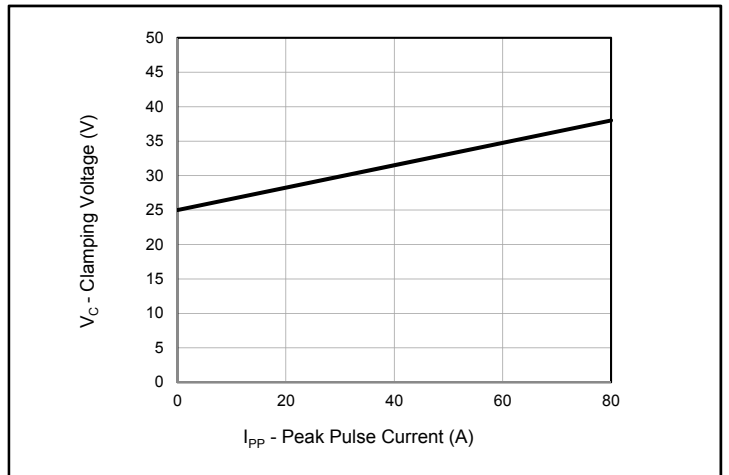
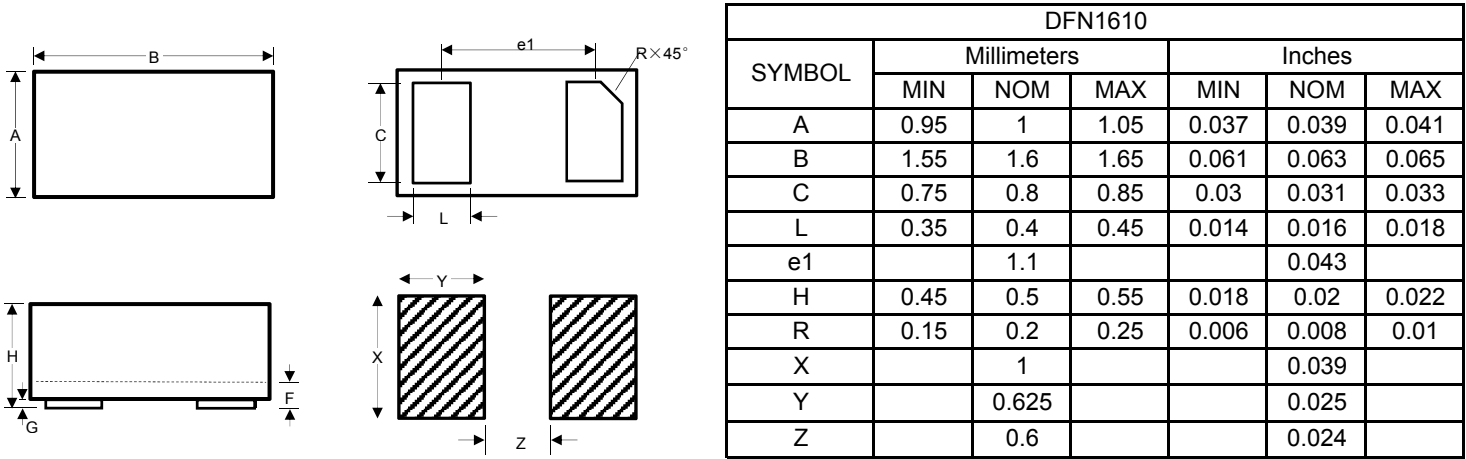


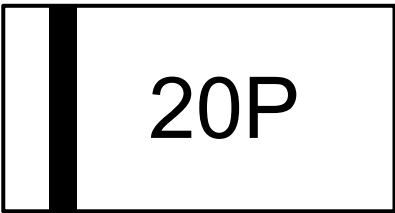
Fig.4 - Clamping Voltage



»Outline Drawing



»Marking



Marking Code: 20P

»Ordering Information

Order Code	Package	Base Quantity	Delivery Mode
BN5A201V	DFN1610	3000	Tape and Reel