

Features

- 5700W peak pulse power (8/20μs)
- Low leakage: nA level
- Operating voltage: 15V
- Ultra low clamping voltage
- One power line protects
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 30\text{kV}$
 - Contact discharge: $\pm 30\text{kV}$
 - IEC61000-4-5 (Lightning) 180A (8/20uS)
- RoHS Compliant

Applications

- Cell phone handsets and accessories
- Personal digital assistants (PDA's)
- Notebooks, desktops, and servers
- Portable instrumentation
- Cordless phones
- Digital cameras
- Peripherals
- MP3 players

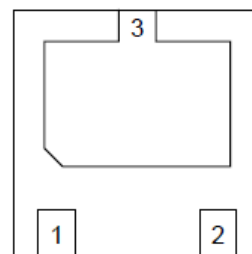
Mechanical Characteristics

- Package: DFN2020-3
- Case Material: "Green" Molding Compound
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 3,000pcs
- Device Marking: 15P

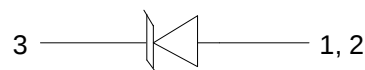
Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	5700	W
Peak Pulse Current (8/20μs)	I _{PP}	180	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Dimensions DFN2020-3



Pin Configuration



Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V _{RWM}				15	V
Breakdown Voltage	V _{BR}	I _T = 1mA	15.5			V
Reverse Leakage Current	I _R	V _{RWM} = 15V			1.0	μA
Clamping Voltage	V _C	I _{PP} = 180A (8 x 20 μs pulse)			32	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		1200		pF

Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

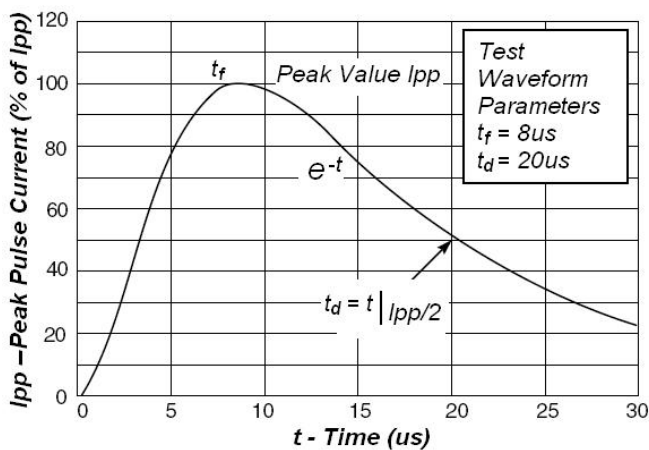


Fig.1 Pulse Waveform

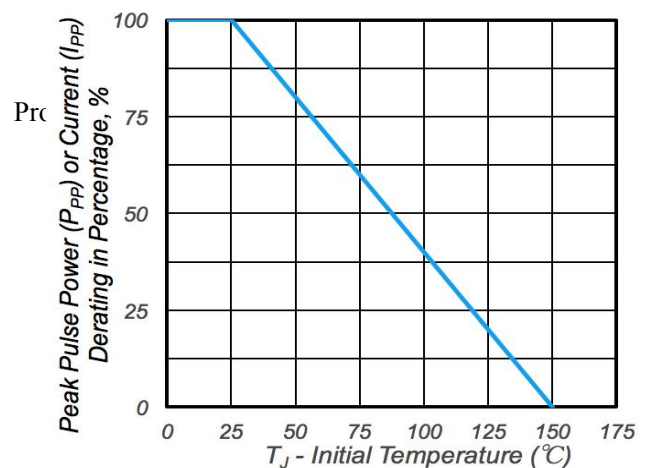
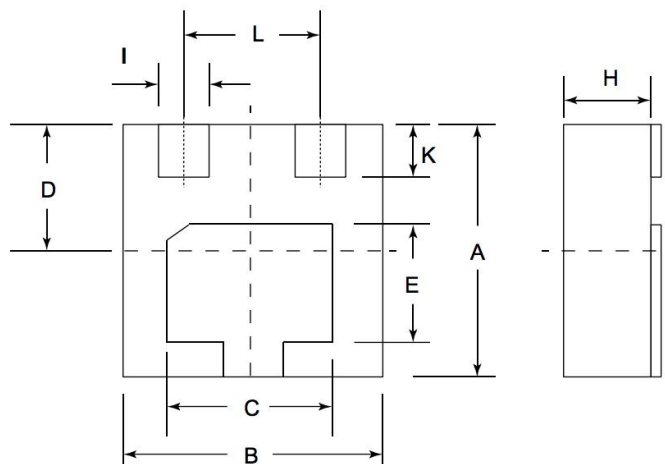


Fig.2 Pulse Derating Curve

DFN2020-3 Package Outline Drawing



Dim	Millimeters	
	Min	Max
A	1.90	2.10
B	1.90	2.10
C	1.40	1.60
D	0.95	1.05
E	0.90	1.10
H	-----	0.65
L	1.3 (TYP)	
I	0.25	0.35
K	0.35	0.45

NOTICE

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