

Features

- 7000W peak pulse power (8/20 μ s)
- Low leakage: nA level
- Low operating voltage: 24V
- Ultra low clamping voltage
- One power line protects
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: ± 30 kV
Contact discharge: ± 30 kV
 - IEC61000-4-4 (EFT) 80A (5/50ns)
 - IEC61000-4-5 (Lightning) 220A (8/20 μ s)
- RoHS Compliant

Applications

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

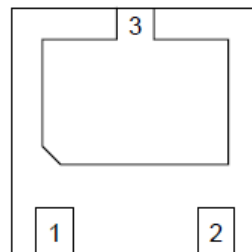
Mechanical Characteristics

- Package: DFN2020-3
- Case Material: "Green" Molding Compound
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 3,000pcs
- Device Marking: N24 004

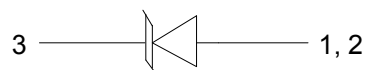
Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μ s)	P _{pp}	7000	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 30	kV
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T _J	-40 to +150	°C
Storage Temperature Range	T _{STJ}	-40 to +150	°C

Dimensions DFN2020-3



Pin Configuration



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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				24	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	24.5			V
Reverse Leakage Current	I_R	$V_{RWM} = 24V$			1.0	μA
Clamping Voltage	V_C	$I_{PP} = 220A$ (8 x 20 μs pulse)			33	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		750		pF

Typical Performance Characteristics(TA=25°C unless otherwise specified)

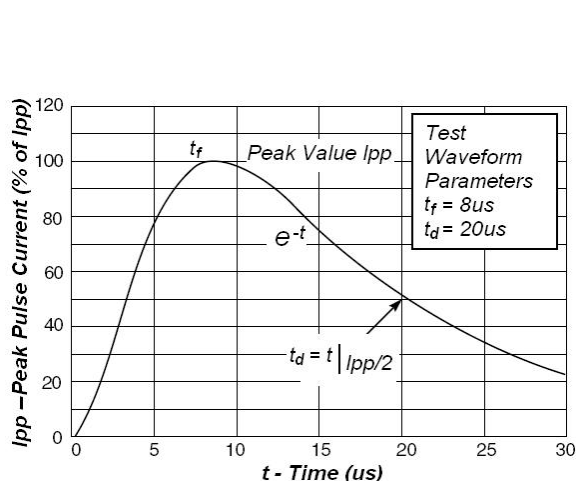


Fig.1 Pulse Waveform

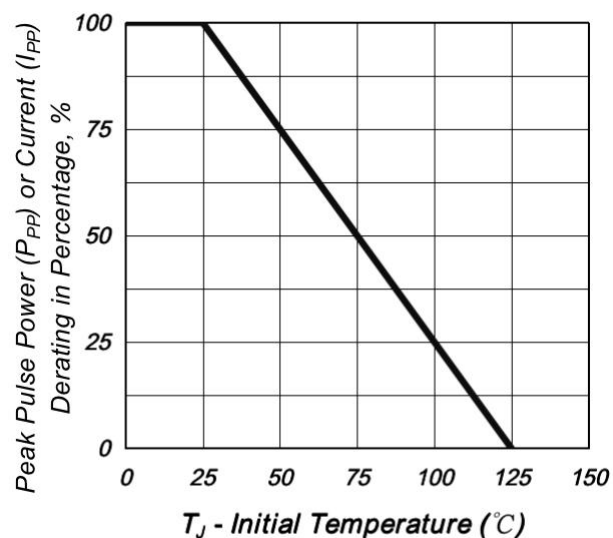
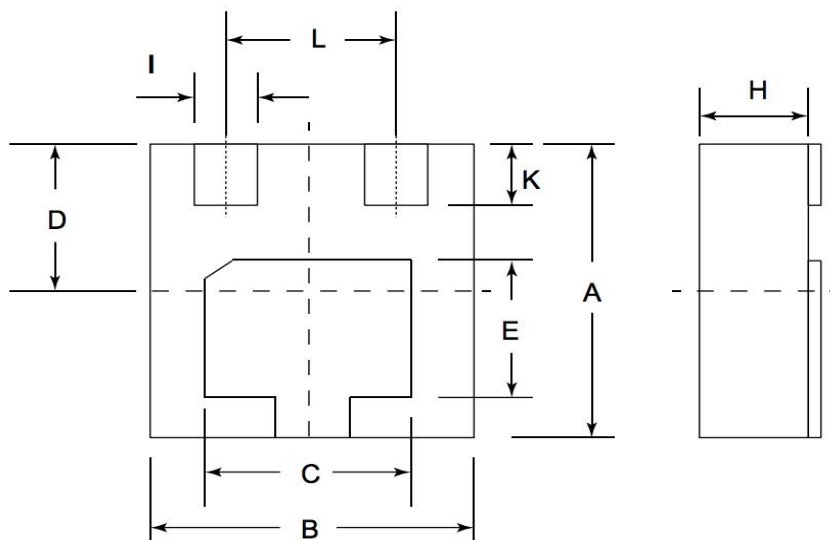


Fig.2 Pulse Derating Curve

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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