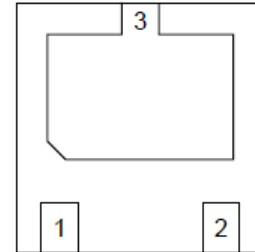


Features

- 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: ±30kV
 - Contact discharge: ±30kV
 - IEC61000-4-5 (Lightning) 180A (8/20uS)
- RoHS Compliant

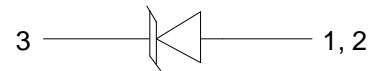
Dimensions DFN2020-3



Applications

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

Pin Configuration



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 (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ppk	5700	W
Peak Pulse Current (8/20µs)	IPP	180	A
ESD per IEC 61000-4-2 (Air)	VESD	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				15	V
Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	15.5			V
Reverse Leakage Current	I_R	$V_{RWM} = 15\text{V}$			1.0	μA
Clamping Voltage	V_C	$I_{PP} = 180\text{A}$ (8 x 20 μs pulse)			32	V
Junction Capacitance	C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$		1200		pF

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

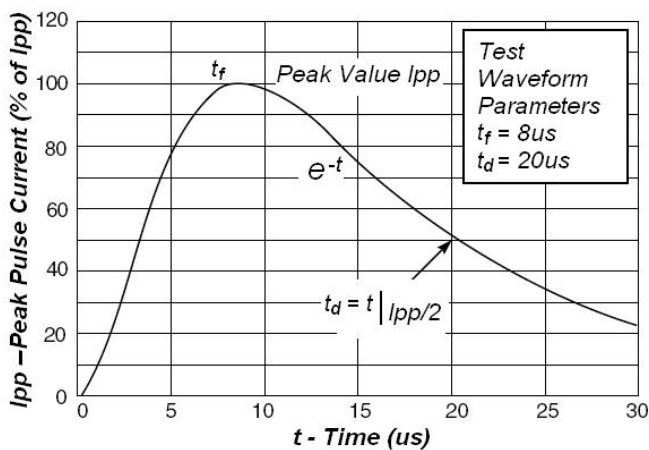


Fig.1 Pulse Waveform

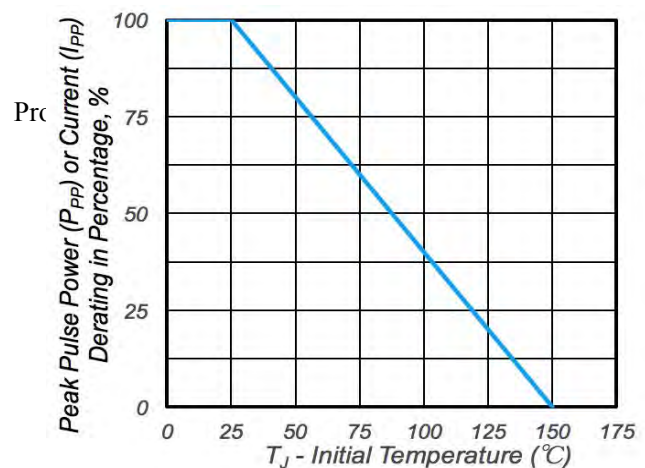
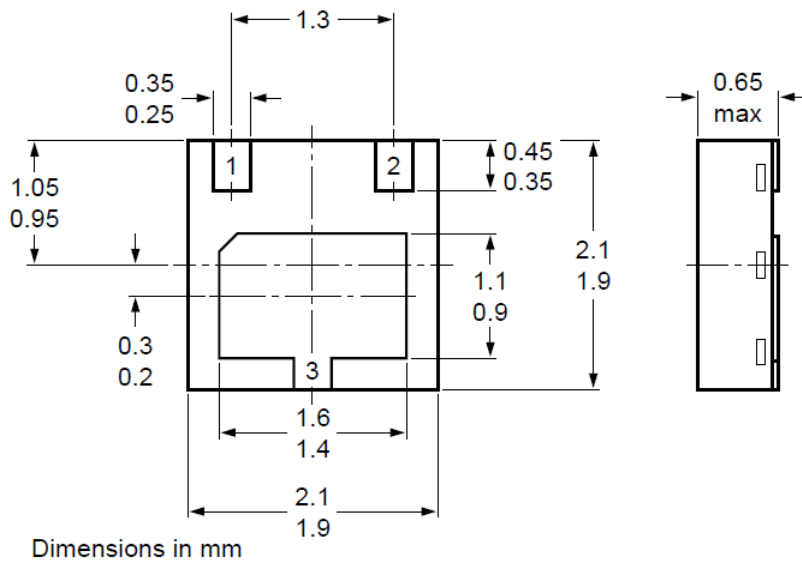
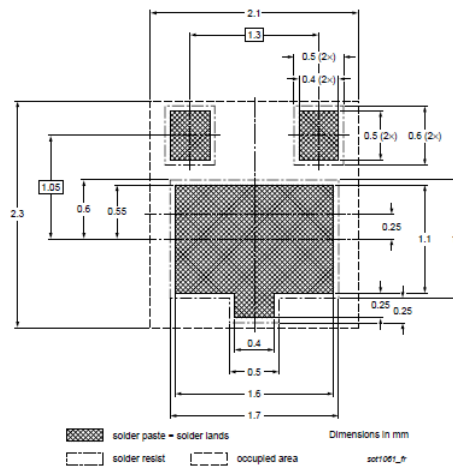


Fig.2 Pulse Derating Curve

DFN2020-3 Package Outline Drawing



Suggested Land Pattern



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