Leiditech

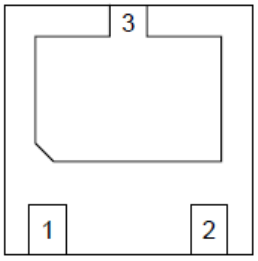
SD0701P4-3

1-Line High Power TVS Diode

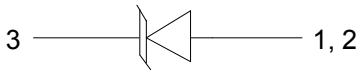
Features

- 4000W peak pulse power (8/20μs)
- Low leakage: nA level
- Low operating voltage: 7V
- 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
  - IEC61000-4-4 (EFT) 80A (5/50ns)
  - IEC61000-4-5 (Lightning) 180A (8/20μs)
- RoHS Compliant

Dimensions DFN2020-3



Pin Configuration



Applications

- Power Management
- Industrial Application
- Power Supply Protection

Mechanical Characteristics

- Package: DFN2020-3
- Lead Finish: NiPdAu
- Case Material: “Green” Molding Compound
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	4000	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	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

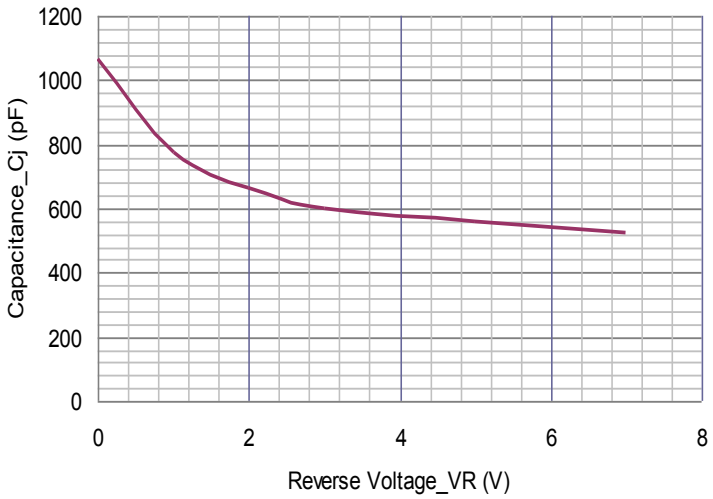
Download from alldatasheet.com

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

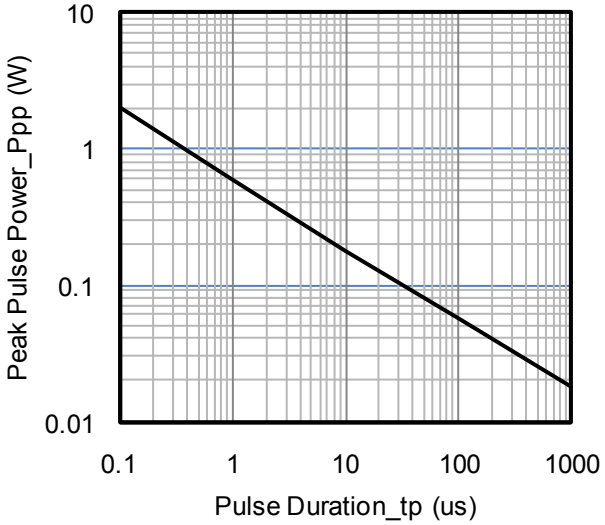
Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @20A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
SD0701P4-3	73P	7	7.5	1	10	22	180	1	1500

Download from alldatasheet.com

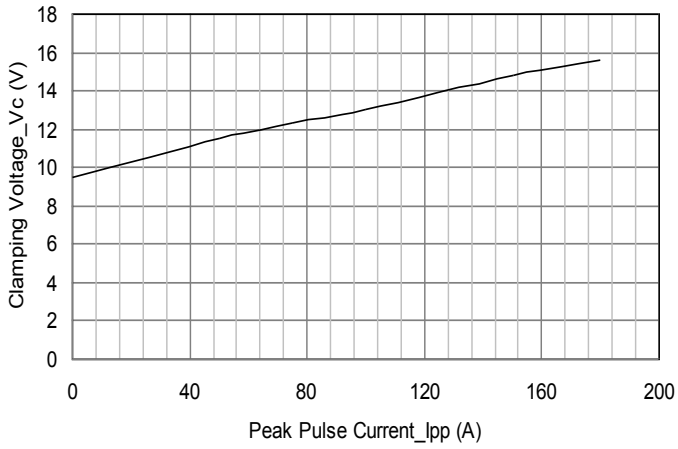
Typical Performance Characteristics (T_A=25°C unless otherwise Specified)



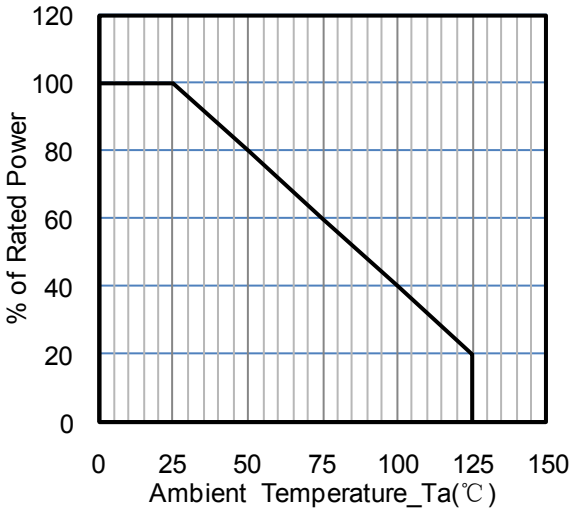
Junction Capacitance vs. Reverse Voltage



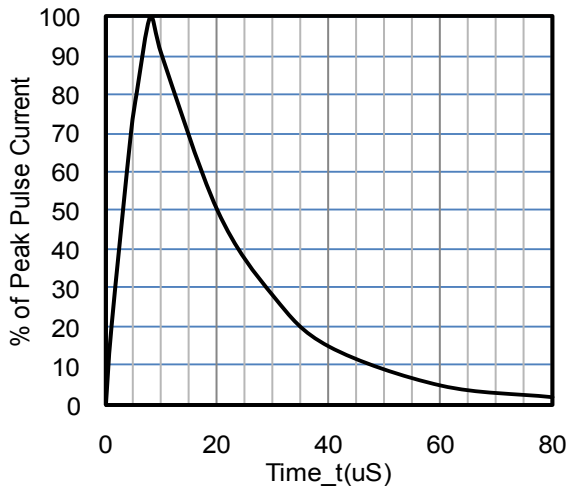
Peak Pulse Power vs. Pulse Time



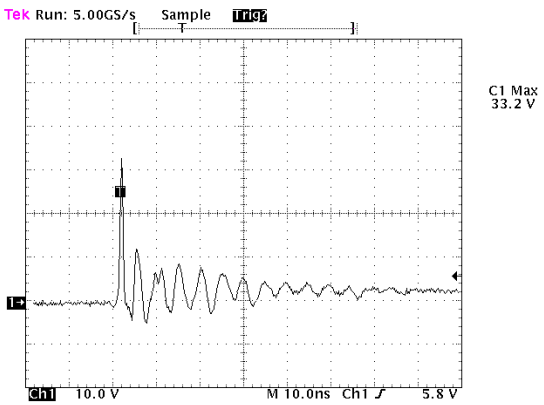
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



8 X 20us Pulse Waveform

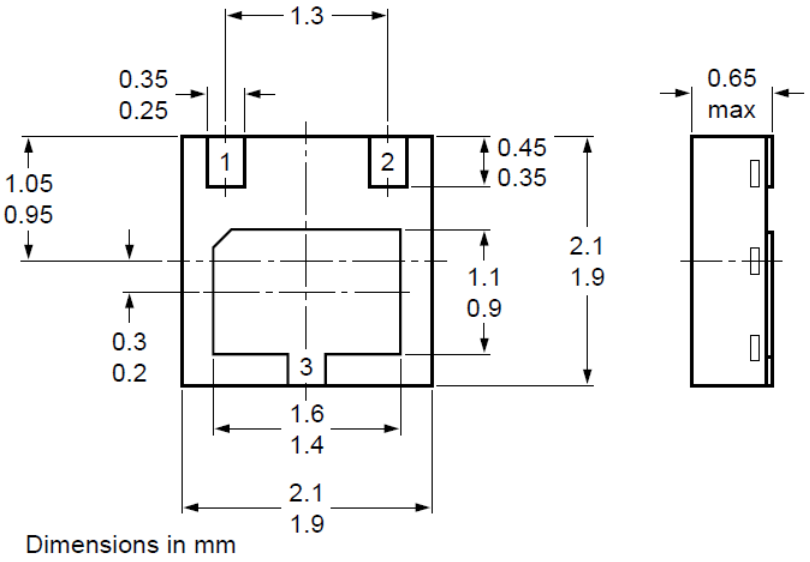


ESD Clamping Voltage

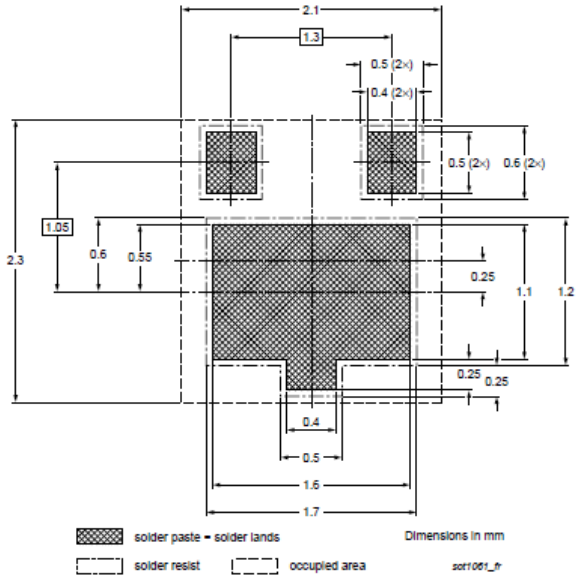
8 kV Contact per IEC61000−4−2

Download from alldatasheet.com

DFN2020-3 Package Outline Drawing



Suggested Land Pattern



Shanghai Leiditech Electronic Co.,Ltd
Email: sale1@leiditech.com
Tel : +86- 021 50828806
Fax : +86- 021 50477059

Download from alldatasheet.com