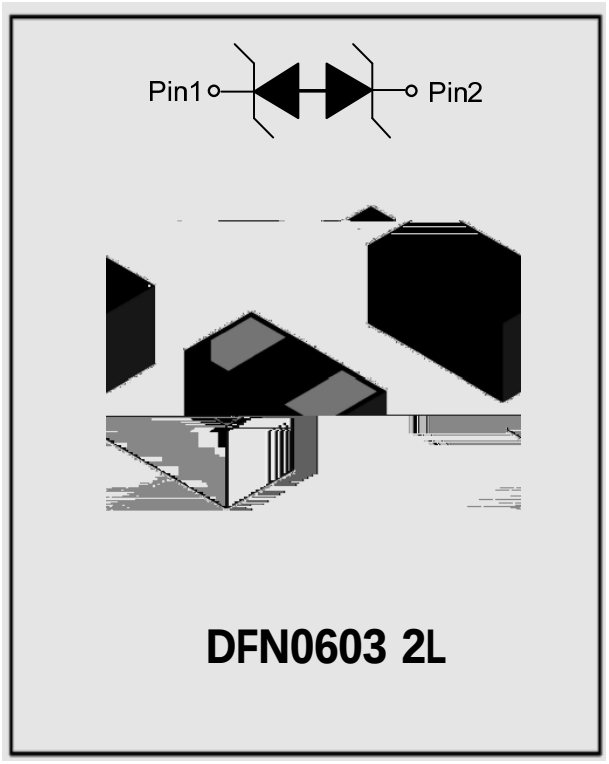


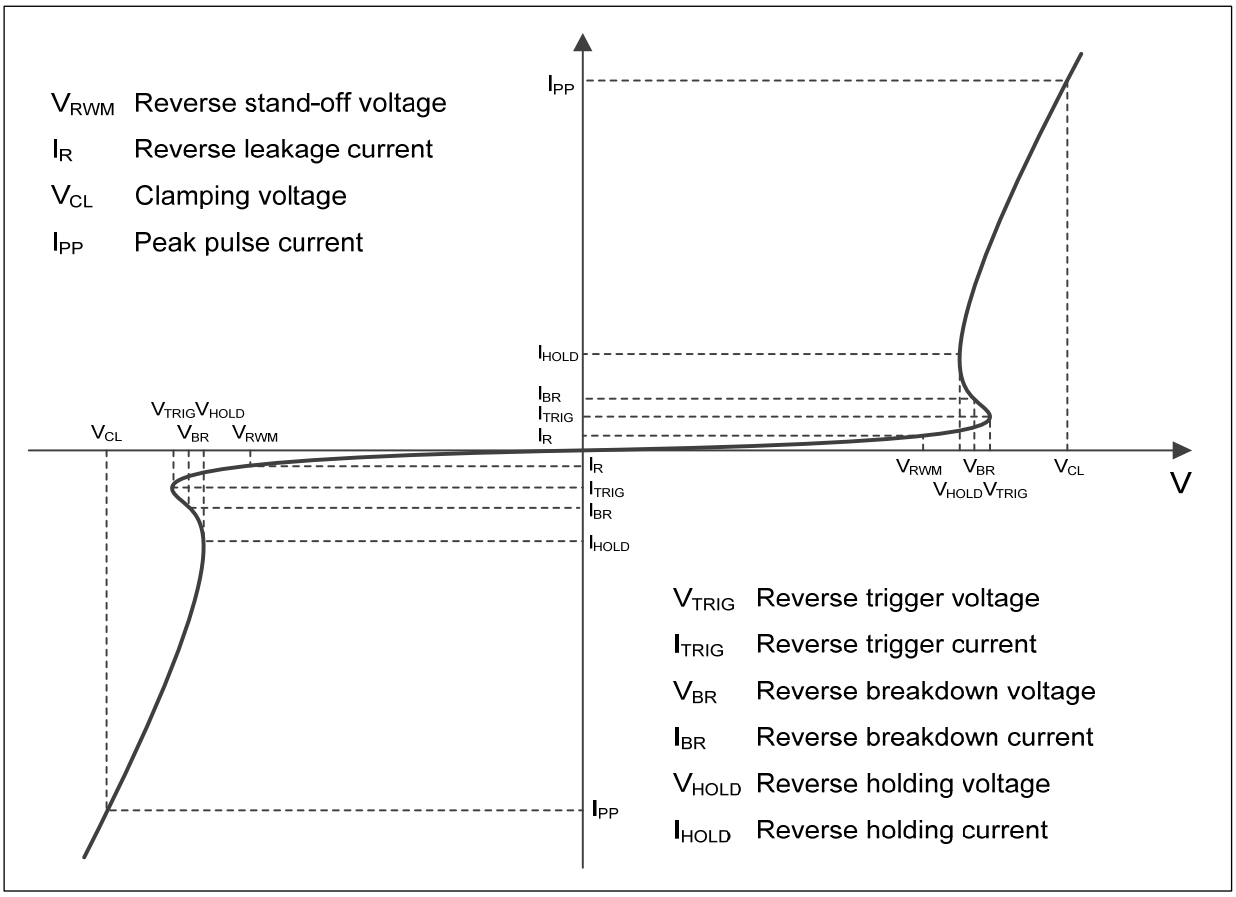

- Ultra small package
- Stand-off voltage: ±5V Max
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±30kV (contact)
  IEC61000-4-4 (EFT): 80A (5/50ns)
  IEC61000-4-5(surge): 16A (8/20μs)
- Ultra-low capacitance: CJ = 35pF typ
- Low leakage current
- Low clamping voltage
- RoHS Compliant

- Cellular handsets
- Tablets
- Laptops
- Other portable devices
- Network communication devices

- Package: DFN0603-2L
- Case Material: “Green” Molding Compound.
- Moisture Sensitivity: Level 3 per J-STD-020
- Marking Information: See Below




■



■ (Ta=25°C unless otherwise specified)

| | | Rating | |
|---|---|---|---|
| Peak pulse power ($t_p$ = 8/20μs) | $P_{pk}$ | 152 | W |
| Peak pulse current ($t_p$ = 8/20μs) | $I_{PP}$ | 16 | A |
| ESD according to IEC61000-4-2 air discharge | $V_{ESD}$ | ±30 | KV |
| ESD according to IEC61000-4-2 contact discharge | | ±30 | KV |
| Junction temperature | $T_J$ | 125 | °C |
| Operating temperature | $T_{OP}$ | -40~85 | °C |
| Storage temperature | $T_{STG}$ | -55~150 | °C |

■ (Ta=25 Unless otherwise specified)

| | | | | | | |
|---|---|---|---|---|---|---|
| Reverse maximum working voltage | $V_{RWM}$ | V | | | | ±5.0 |
| Reverse leakage current | $I_R$ | nA | $V_{RWM}$ =5.0V | | | 100 |
| Reverse breakdown voltage | $V_{BR}$ | V | $I_{BR}$ = 1mA | 5.3 | | 7 |
| Reverse holding voltage | $V_{HOLD}$ | V | $I_{HOLD}$ = 50mA | 5.3 | | 7 |
| Clamping voltage 1) | $V_{CL}$ | V | $I_{PP}$ = 16A, $t_p$ = 100ns | | 7 | |
| Dynamic resistance 1) | $R_{DYN}$ | Ω | | | 0.1 | |
| Clamping voltage 2) | $V_{CL}$ | V | $V_{ESD}$ = 8kV | | 8 | |
| Clamping voltage 3) | $V_{CL}$ | V | $I_{PP}$ = 1A, $t_p$ = 8/20μs | | 6 | 7 |
| | | V | $I_{PP}$ = 8A, $t_p$ = 8/20μs | | 6.8 | 8.5 |
| | | V | $I_{PP}$ = 16A, $t_p$ = 8/20μs | | 8 | 9.5 |
| Junction capacitance | $C_J$ | pF | $V_R$ = 0V, f = 1MHz | | 35 | 45 |
| | | pF | $V_R$ = 2.5V, f = 1MHz | | 25 | 35 |

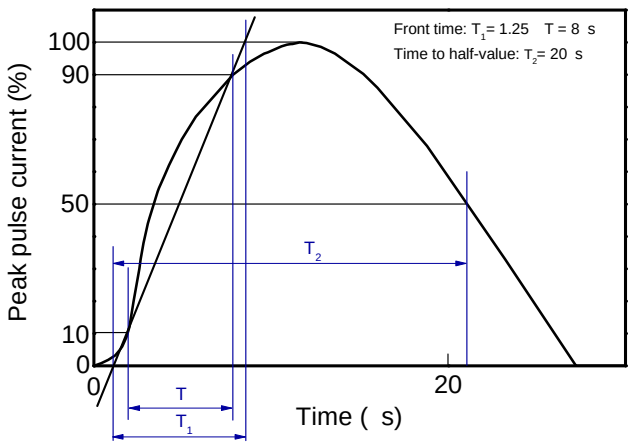
(1). TLP parameter: $Z_0$ = 50Ω, $t_p$ = 100ns, $t_r$ = 2ns, averaging window from 60ns to 80ns. $R_{DYN}$ is calculated from 4A to 16A.
(2). Contact discharge mode, according to IEC61000-4-2.
(3). Non-repetitive current pulse, according to IEC61000-4-5.

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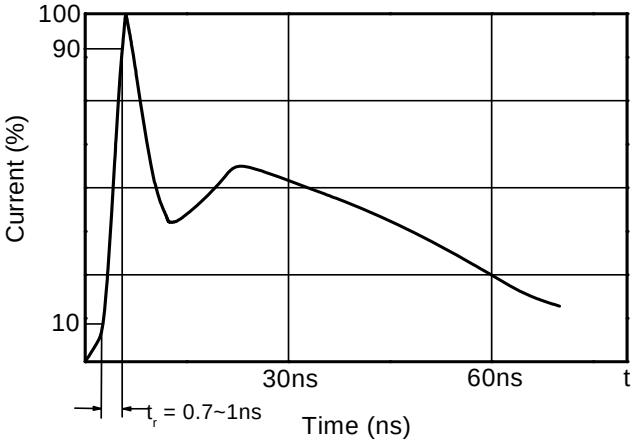
| | | | | | |
|---|---|---|---|---|---|
| ESD5V0LZBA | Approximate 0.18 | 10000 | 100000 | 400000 | Tae& reel |

■ (Ta=25 unless otherwise Specified)

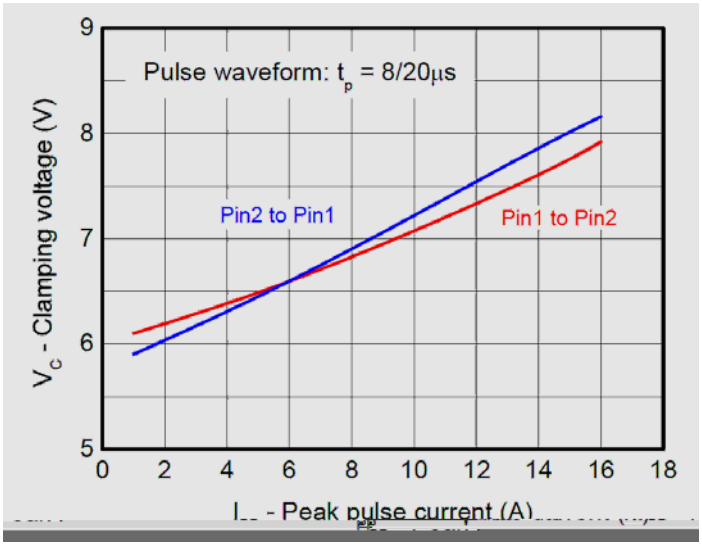
**8/20μs waveform per IEC61000 4 5**



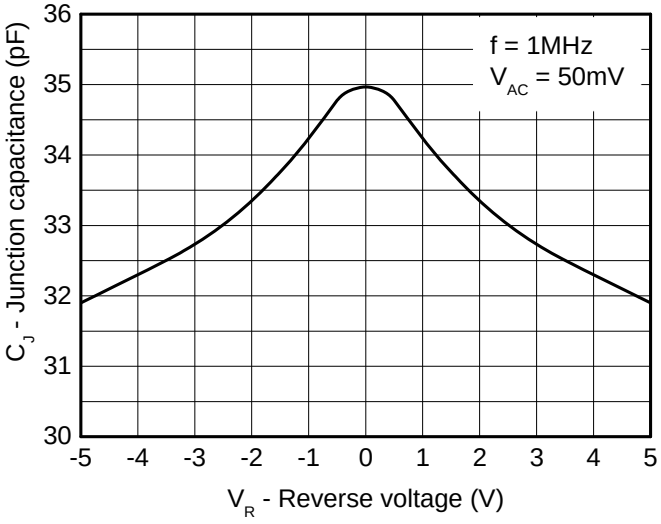

**Contact discharge current waveform per IEC61000 4 2**



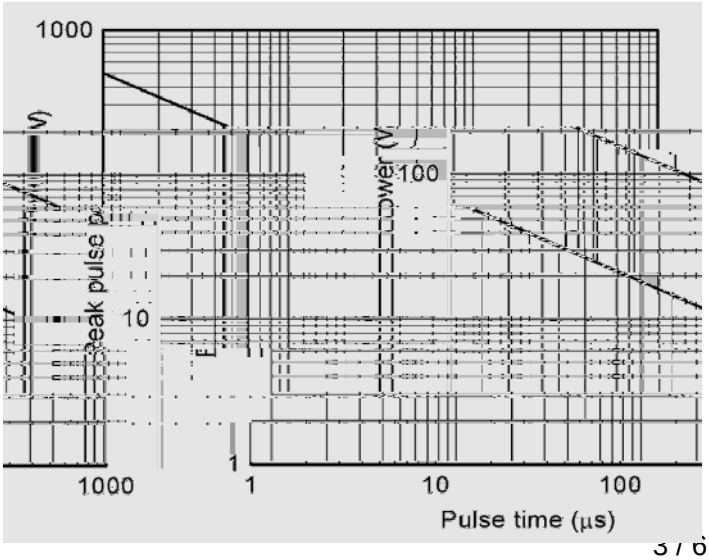

**Clamping voltage vs. Peak pulse current**



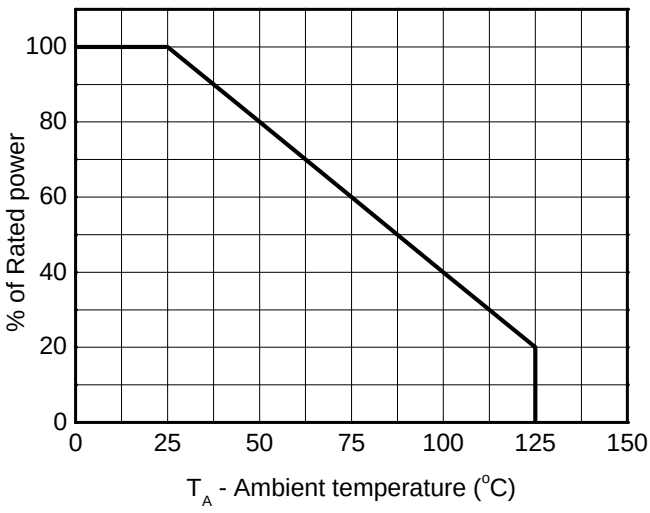

**Capacitance vs. Reverse voltage**



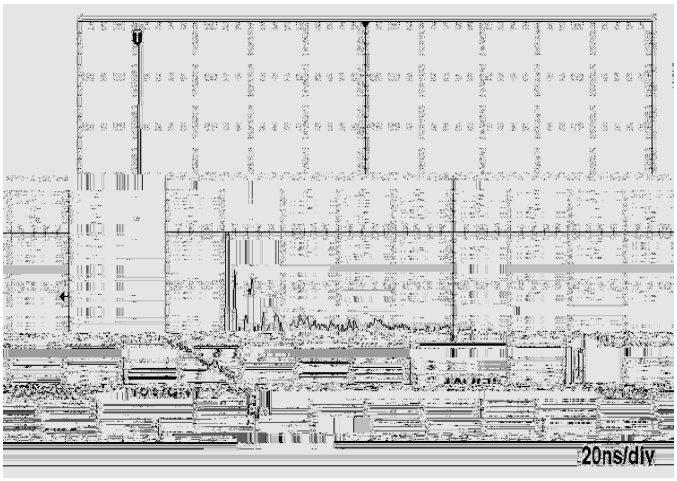

**Non repetitive peak pulse power vs. Pulse time**



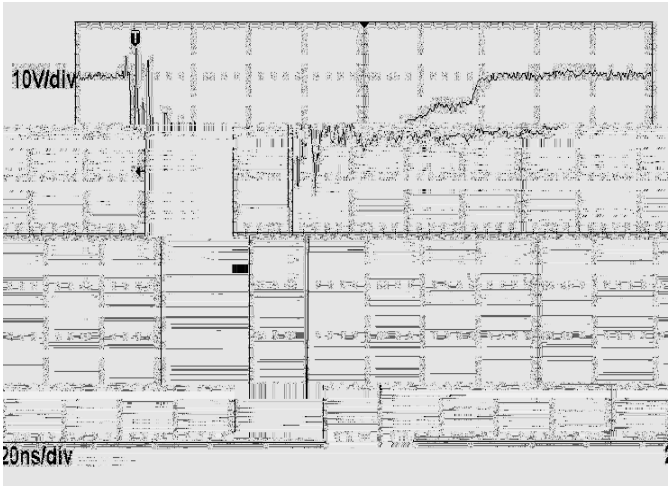

**Power derating vs. Ambient temperature**



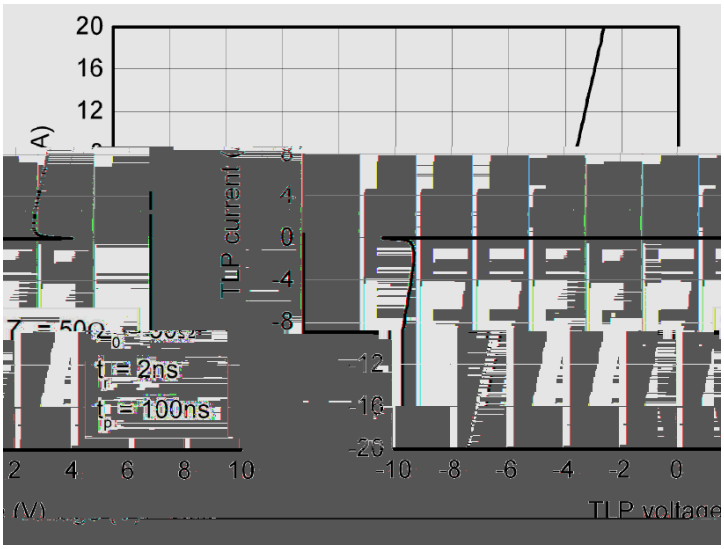
**ESD clamping**
**(+8kV contact discharge per IEC61000 4 2)**



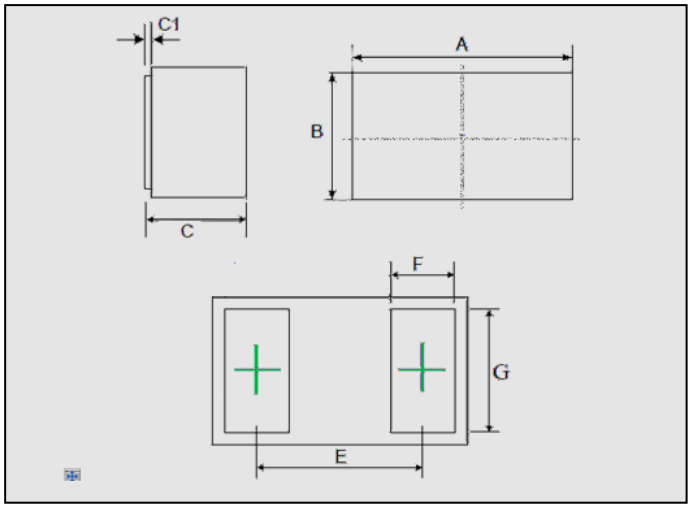

**ESD clamping**
**( 8kV contact discharge per IEC61000 4 2)**




**TLP Measurement**

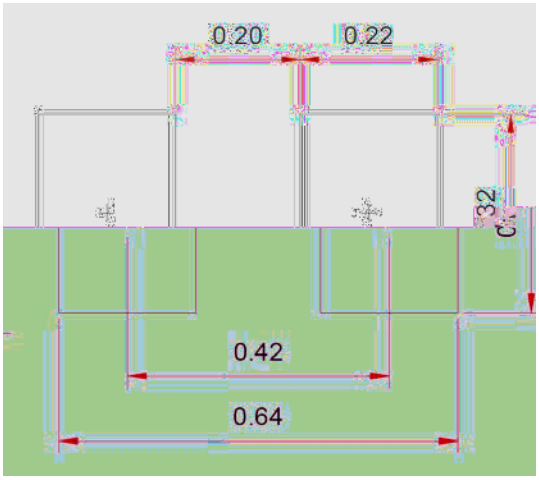


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Notes:
This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met

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