





Thermal resistance

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---|------------|------|------|------|-------|
| Thermal resistance, junction - case | R_{thJC} | - | - | 1.5 | ° C/W |
| Thermal resistance, junction - ambient | R_{thJA} | - | - | 40 | ° C/W |
| Soldering temperature, wave soldering for 10s | T_{sold} | - | - | 265 | ° C |

Electronic Characteristics

| Parameter | Symbol | Condition | Min. | Typ | Max. | Unit |
|--------------------------------|------------|-----------|------|-----|------|------|
| Drain-Source Breakdown Voltage | BV_{DSS} | V_{GS} | | | | |

| | | | | | | |
|---------------------|--|--|--|----|--|----|
| Turn-Off Delay time | | | | 24 | | ns |
| Turn-Off Fall time | | | | 12 | | ns |
| | | | | 23 | | ns |
| | | | | 11 | | ns |
| | | | | 8 | | ns |
| | | | | 24 | | ns |

Note: ;

Fig.1 Power Dissipation

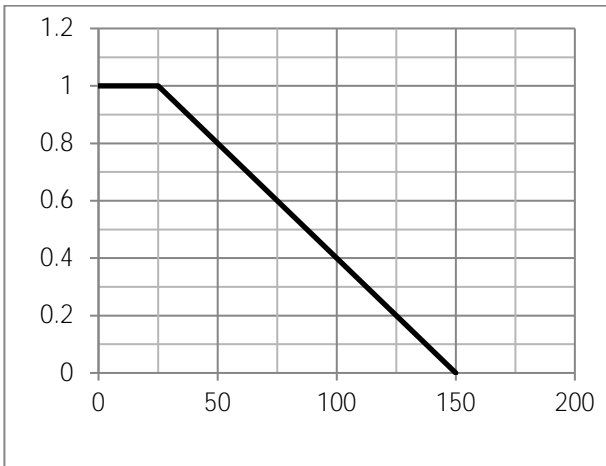


Fig.2 Typical output Characteristics

Fig.3 Threshold Voltage V.S Junction Temperature

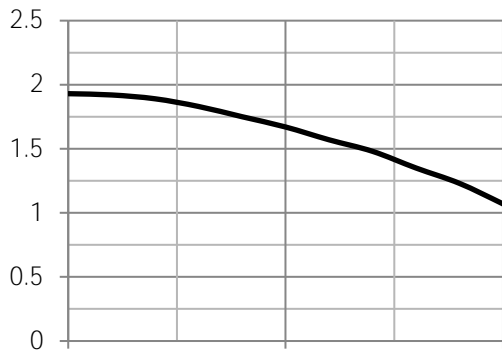


Fig.4 Resistance V.S Drain Current



Fig.9 S

Fig.15 Avalanche Measurement Circuit

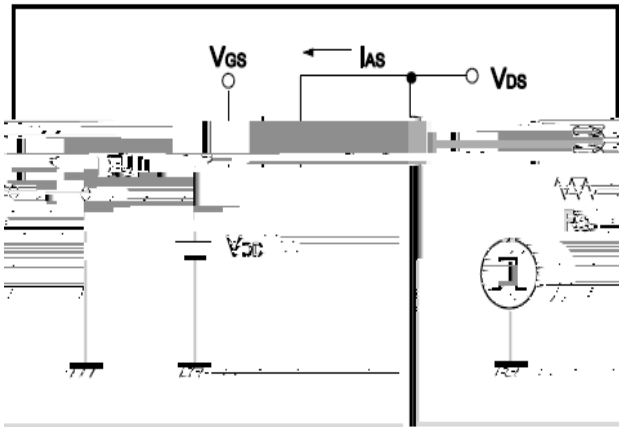
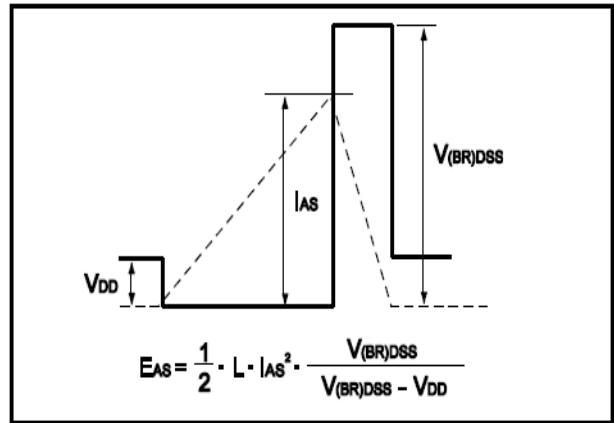


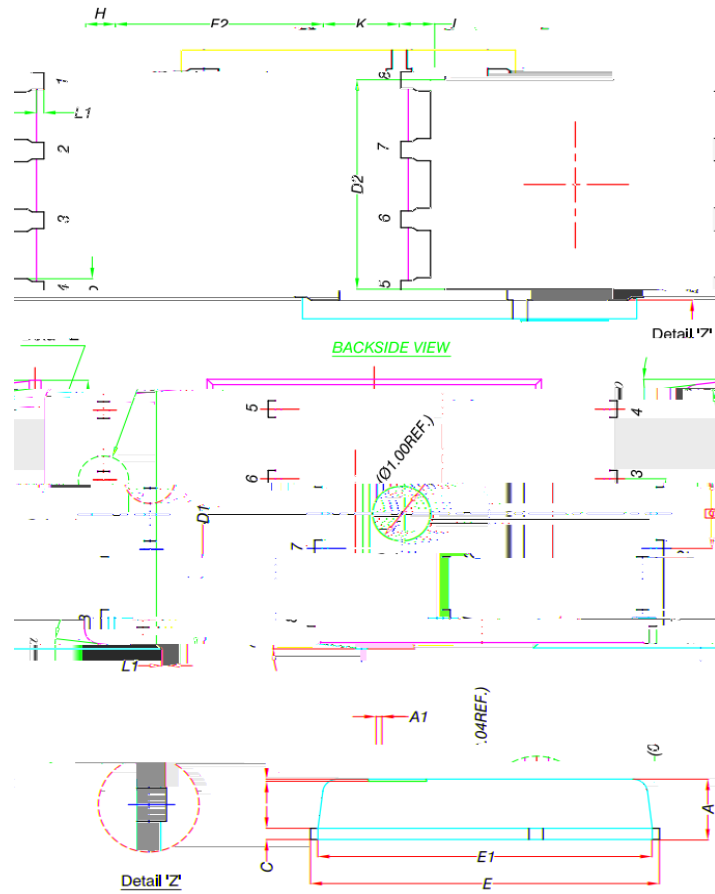
Fig.16 Avalanche Waveform





Dimensions DFN5x6

Unit mm



| DIM. | MILLIMETERS | | |
|------|-------------|------|------|
| | MIN | NOM | MAX |
| A | 0.90 | 1.70 | 1.70 |
| A1 | 0 | 0.05 | 0.05 |
| b | 0.33 | 0.41 | 0.51 |
| C | 0.20 | 0.25 | 0.3 |
| D1 | 4.80 | 4.90 | 5.0 |
| D2 | 3.61 | 3.81 | 3.9 |
| E1 | 5.70 | 5.75 | 5.80 |
| E2 | 3.30 | 3.35 | 3.4 |
| H | 0.61 | 0.41 | 0.51 |
| J | 0.61 | 0.71 | 0.81 |
| K | 0.61 | 0.71 | 0.81 |
| L1 | 0.61 | 0.71 | 0.81 |
| L2 | 0.13 | 0.20 | 0.3 |
| 6° | | | |