





## YJG5D2G10H

### ■ Electrical Characteristics

| Parameter        | Symbol | Conditions | Min | Typ | Max | Units |
|------------------|--------|------------|-----|-----|-----|-------|
| Static Parameter |        |            |     |     |     |       |

|                                |            |                                   |     |   |   |  |
|--------------------------------|------------|-----------------------------------|-----|---|---|--|
| Drain-Source Breakdown Voltage | $BV_{DSS}$ | $V_{GS}=0V, I_D=250\mu A, T_J=25$ | 100 | - | - |  |
|--------------------------------|------------|-----------------------------------|-----|---|---|--|



## Typical Electrical and Thermal Characteristics Diagrams

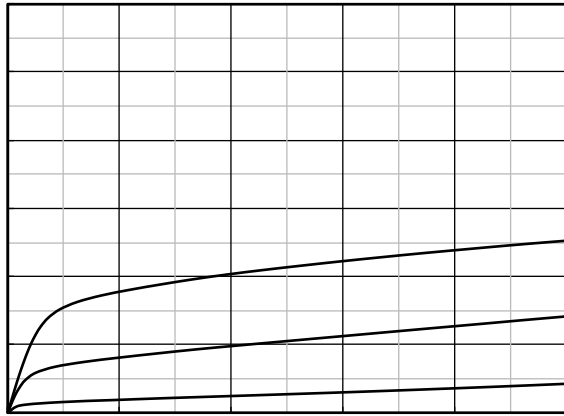


Figure 1. Output Characteristics; typical values

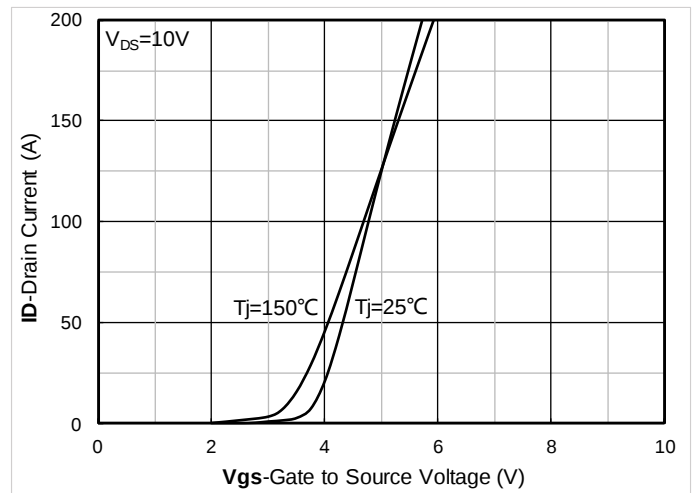


Figure 2. Transfer Characteristics; typical values

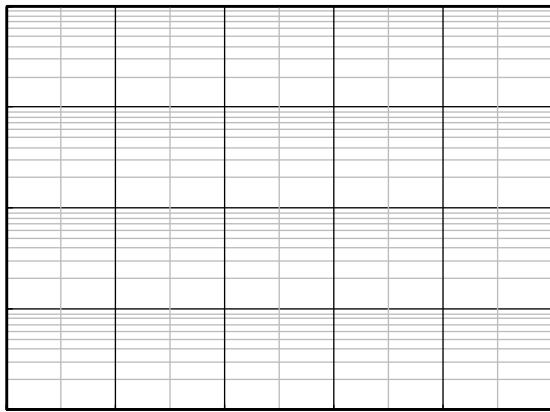


Figure 3. Capacitance Characteristics; typical values

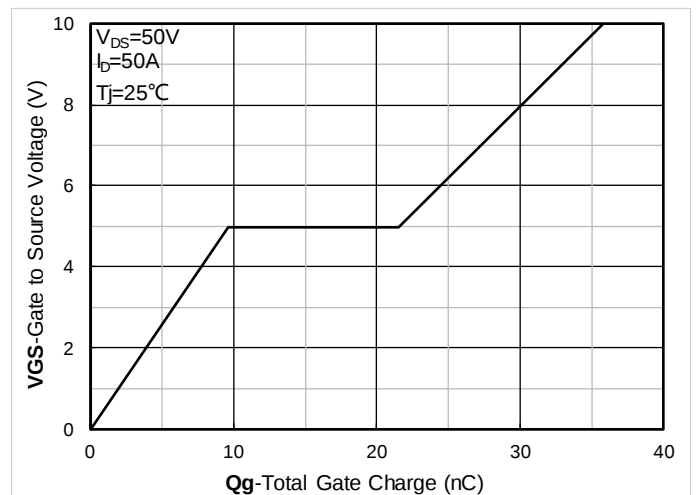


Figure 4. Gate Charge; typical values

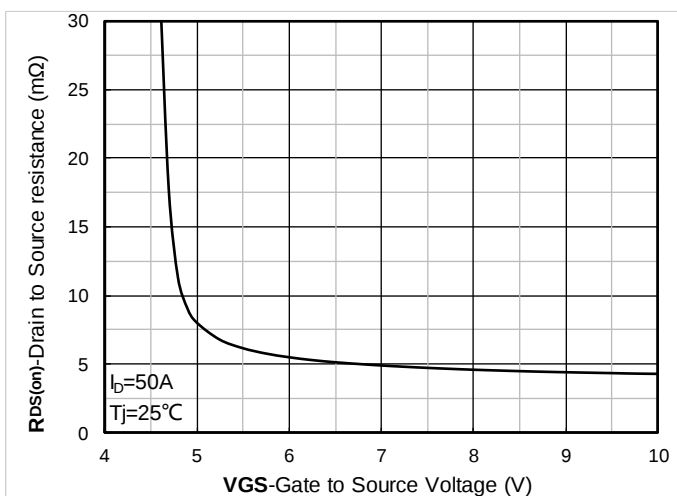


Figure 5. On-Resistance vs. Gate to Source Voltage; typical values



Figure 6. Normalized On-Resistance

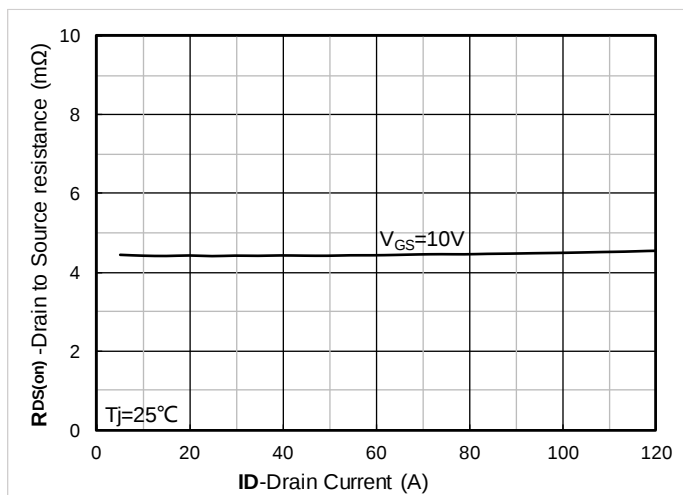


Figure 7. RDS(on) vs. Drain Current; typical values



Figure 8. Forward characteristics of reverse diode; typical values

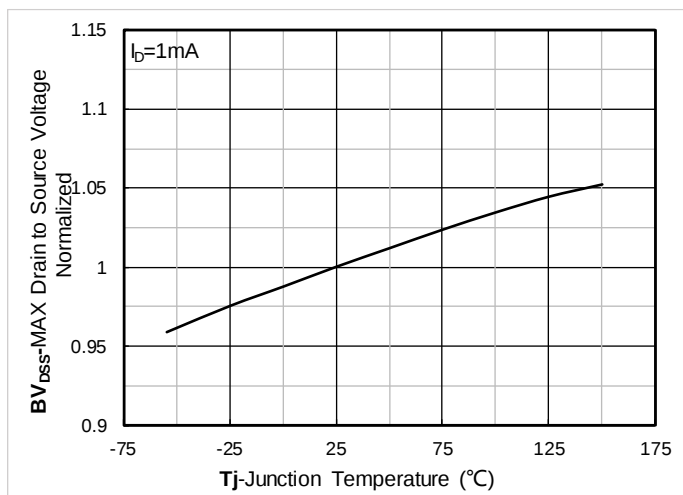


Figure 9. Normalized breakdown voltage

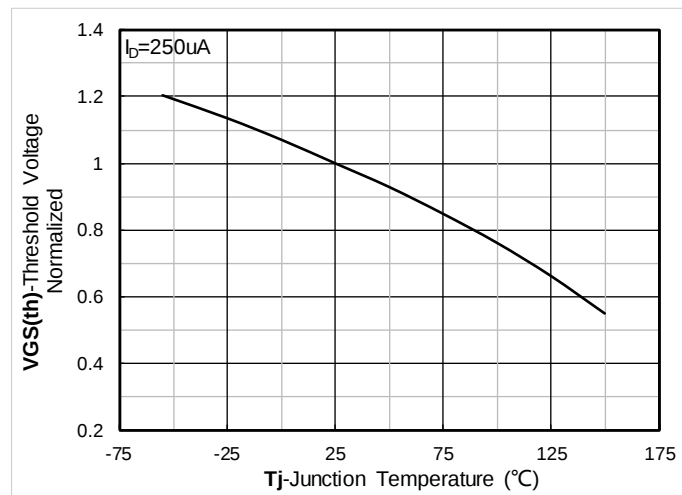


Figure 10. Normalized Threshold voltage

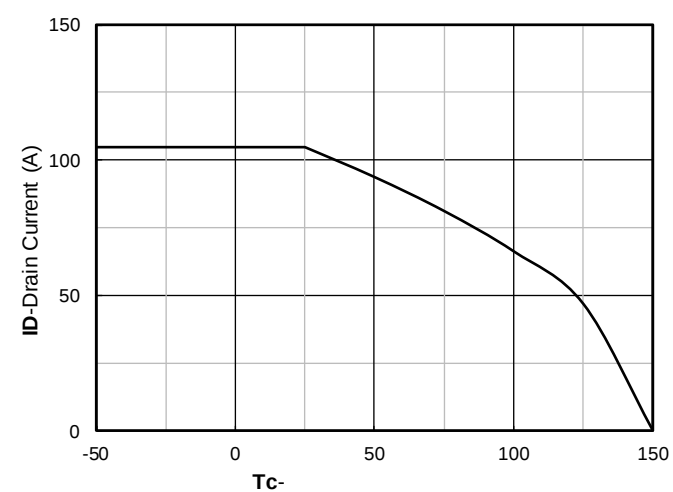


Figure 11. Current dissipation

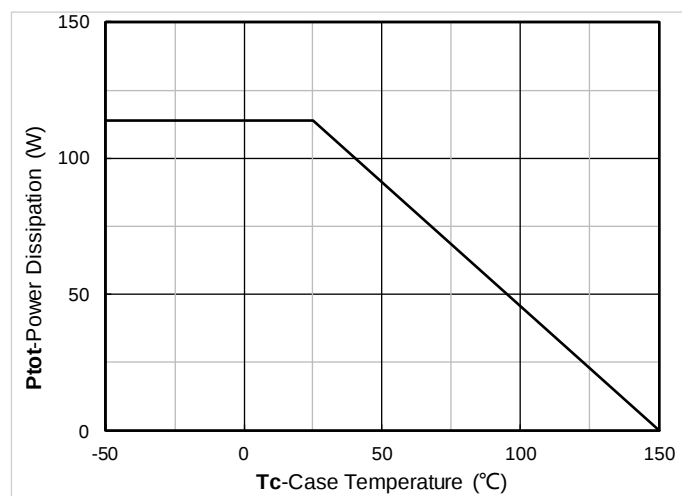


Figure 12. Power dissipation

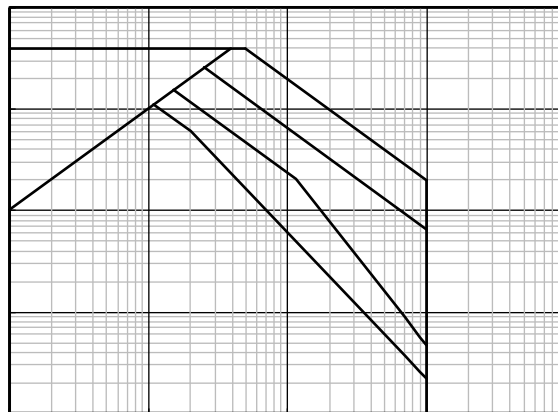


Figure 13. Maximum Transient Thermal Impedance

Figure 14. Safe Operation Area

## ■ Test Circuits & Waveforms

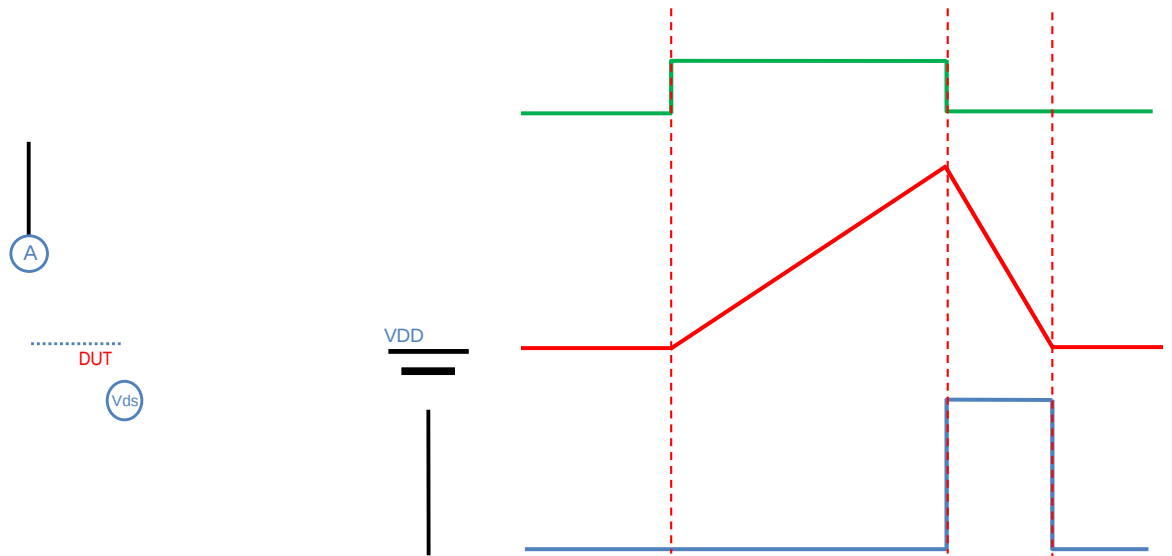


Figure A. Unclamped Inductive Switching (UIS) Test Circuit & Waveform

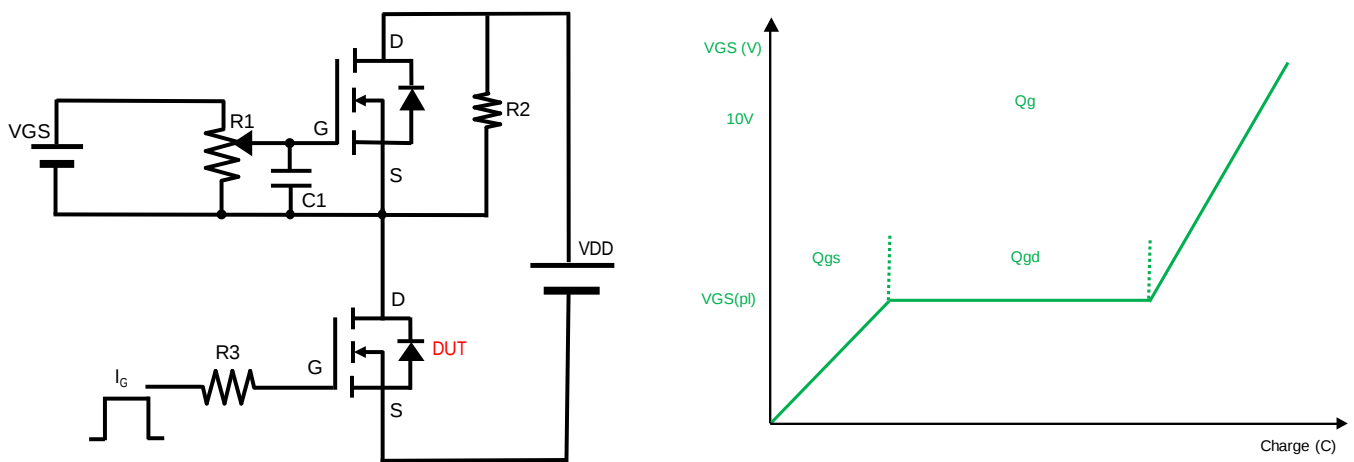


Figure B. Gate Charge Test Circuit & Waveform

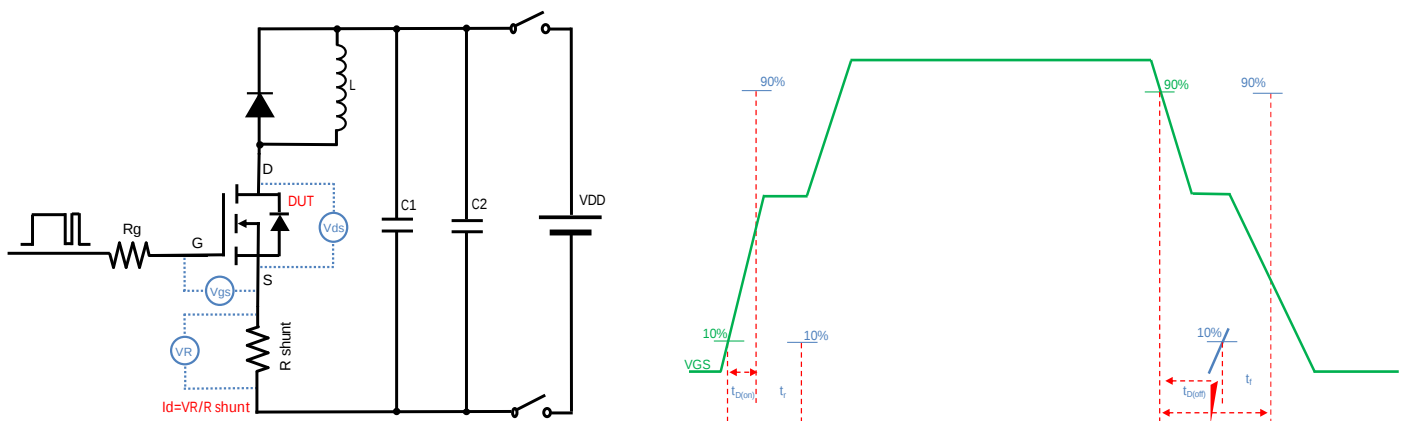


Figure C. Resistive Switching Test Circuit & Waveform

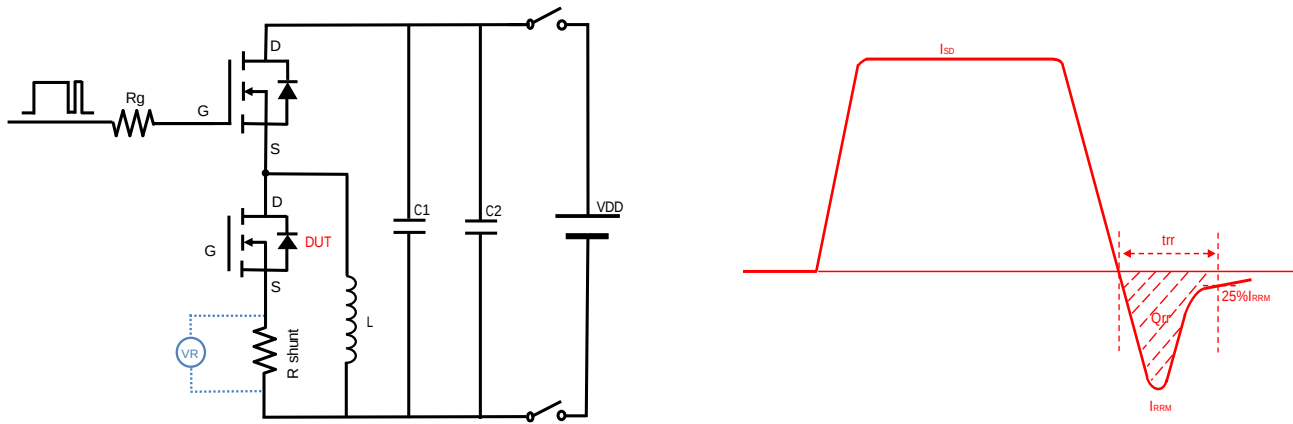
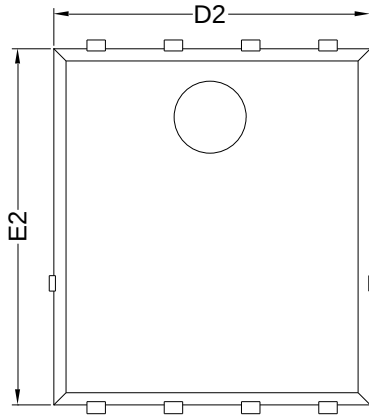


Figure D. Diode Recovery Test Circuit & Waveform

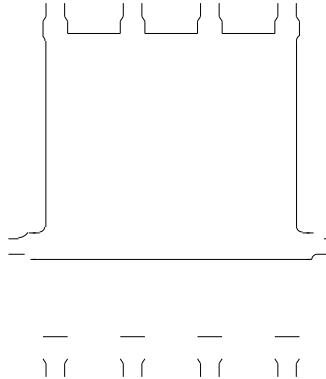


## YJG5D2G10H

### ■ PDFN5060-8L-B-1.1MM Package information



Top View



Bottom View

Side View

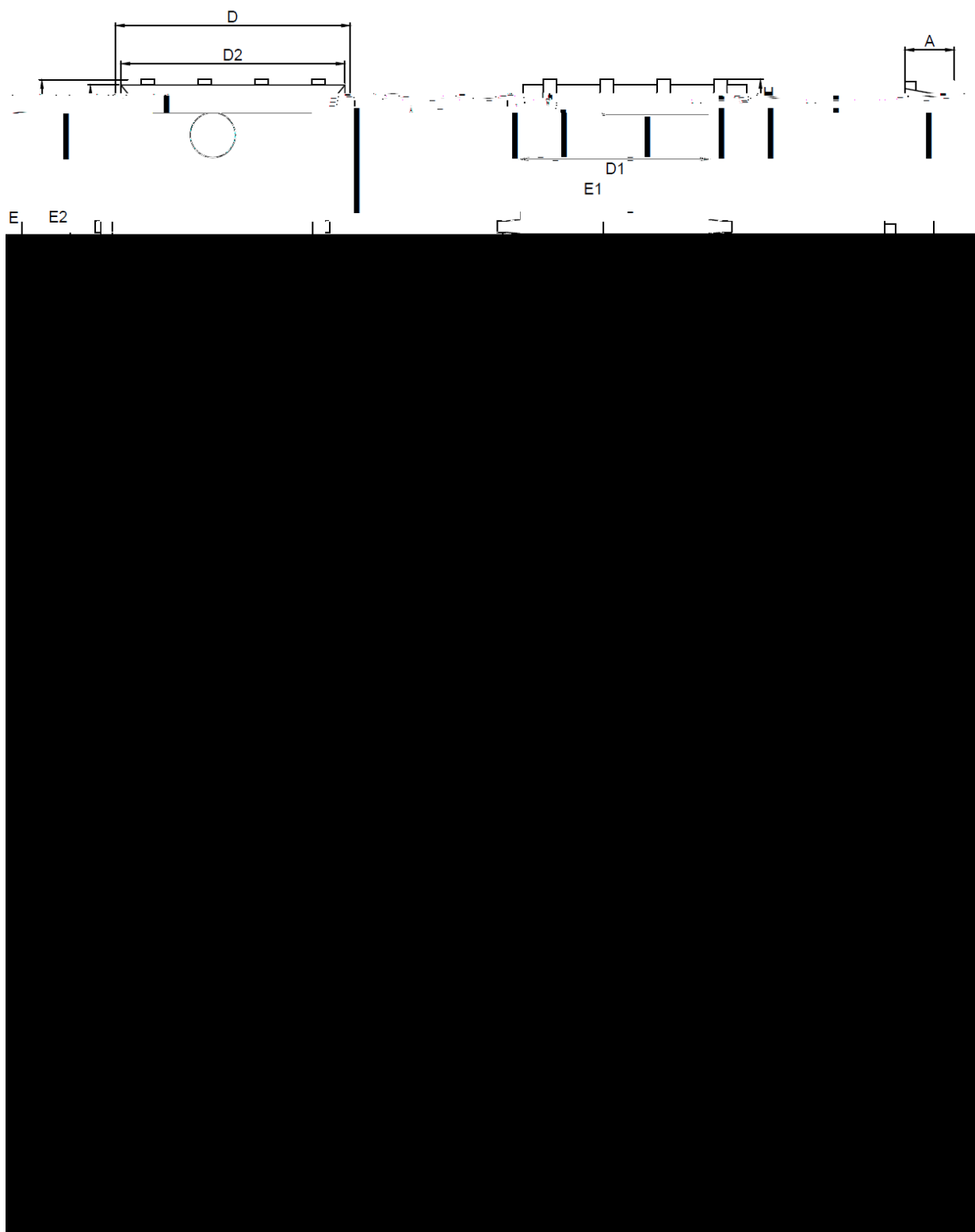
| SYMBOL | MILLIMETER |      |      |
|--------|------------|------|------|
|        | MIN        | NOM  | MAX  |
| D      | 5.15       | 5.35 | 5.55 |
| E      | 5.95       | 6.15 | 6.35 |
| A      | 1.00       | 1.10 | 1.20 |
| A1     | 0.254 BSC  |      |      |
| A2     |            |      | 0.10 |
| D1     | 3.92       | 4.12 | 4.32 |
| E1     | 3.52       | 3.72 | 3.92 |
| D2     | 5.00       | 5.20 | 5.40 |
| E2     | 5.66       | 5.86 | 6.06 |
| E3     | 0.254 REF  |      |      |
| E4     | 0.21 REF   |      |      |
| L1     | 0.56       | 0.66 | 0.76 |
| L2     | 0.50 BSC   |      |      |
| b      | 0.31       | 0.41 | 0.51 |
| e      | 1.27 BSC   |      |      |

Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.10$  mm.
3. The pad layout is for reference purposes only.

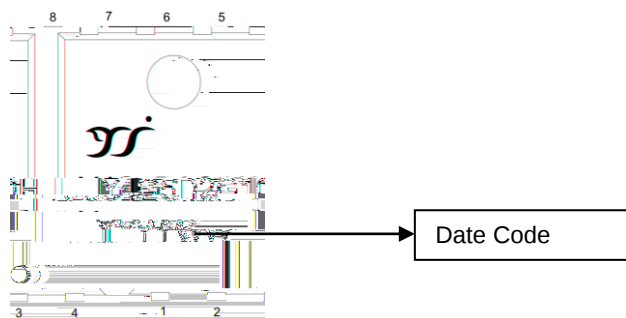


## ■ PDFN5060-8L-H-1.1MM Package information





## ■ Marking Information



### Note

1. All marking is at middle of the product body
2. All marking is in laser printing
3. YJG5D2G10H is part no., YYWW is date code, “YY” is year, “WW” is week
4. Body color: Black



## Disclaimer

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