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**Ordering Information:**

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**Absolute Maximum Ratings  $T_C=25$**

| Parameter                | Symbol          | Rating | Unit |
|--------------------------|-----------------|--------|------|
|                          | $V_{DS}$        | 30     | V    |
| Gate-Source Voltage      |                 |        | V    |
| Continuous Drain Current | $I_D @ T_C=25$  | 340    | A    |
|                          | $I_D @ T_C=75$  | 258    | A    |
|                          | $I_D @ T_C=100$ | 214    | A    |
| Pulsed Drain Current     | $I_{DM}$        | 1020   | A    |
| Total Power Dissipation  | $P_D @ T_C=25$  | 138    | W    |
| Total Power Dissipation  | $P_D @ T_A=25$  | 3.5    | W    |



|   |          |     |    |
|---|----------|-----|----|
| Single Pulse Avalanche Energy<br>(L=0.1mH,VGS=10V,Rg=25 - | $E_{AS}$ | 450 | mJ |
|---|----------|-----|----|

**Thermal resistance**

| Parameter                                     | Symbol     | Min. | Typ. | Max. | Unit |
|---|------------|------|------|------|------|
| Thermal resistance, junction - case           | $R_{thJC}$ | -    | -    | 0.9  | C/W  |
| Thermal resistance, junction - ambient        | $R_{thJA}$ | -    | -    | 36   | C/W  |
| Soldering temperature, wave soldering for 10s | $T_{sold}$ | -    | -    | 265  | C    |

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**Electronic Characteristics**

| Parameter | Symbol | Condition | Min. | Typ | Max. | Unit |
|-----------|--------|-----------|------|-----|------|------|
|-----------|--------|-----------|------|-----|------|------|

Drain-Source B.37 e3.3 37 0.12:



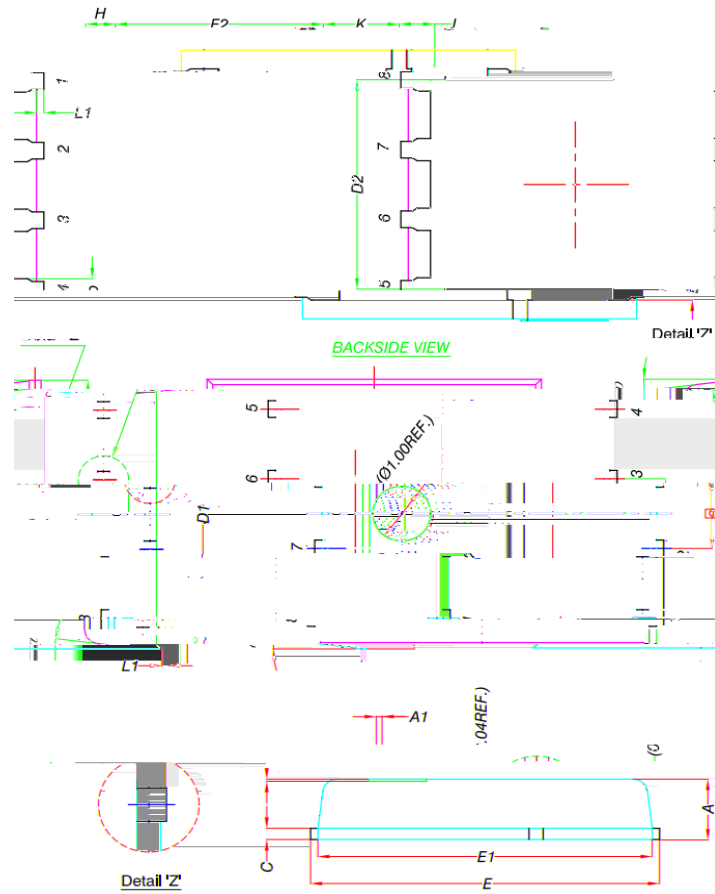






Dimensions DFN5x6

Unit mm



| DIM. | MILLIMETERS |      |      |
|------|-------------|------|------|
|      | MIN.        | NOM. | MAX. |
| A    | 0.90        | 1.00 | 1.10 |
| A1   | 0           | -    | 0.05 |
| b    | 0.33        | 0.41 | 0.51 |
| C    | 0.20        | 0.25 | 0.30 |
| D1   | 4.80        | 4.90 | 5.00 |
| D2   | 3.61        | 3.81 | 3.96 |

