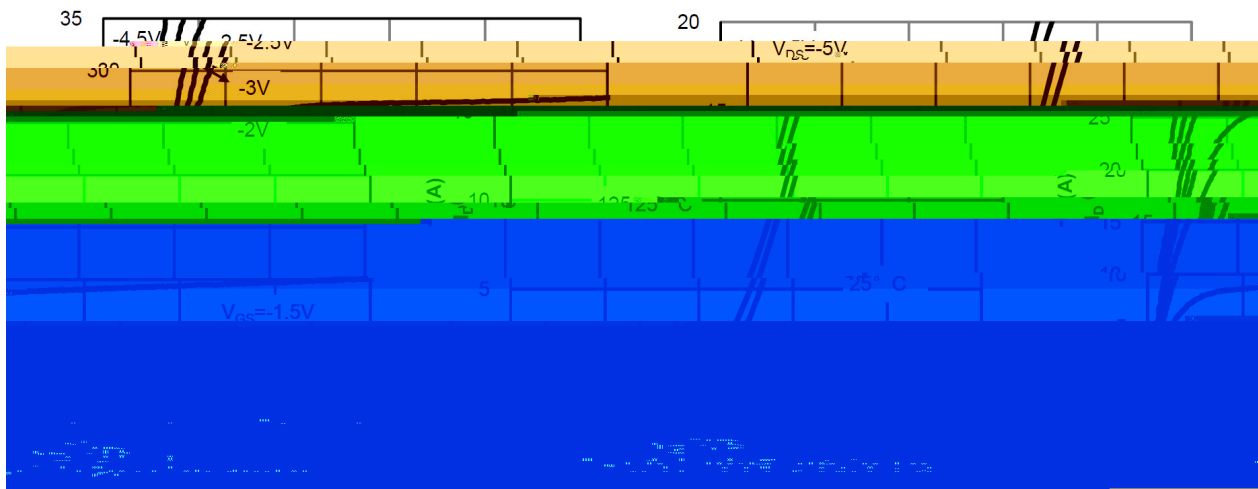
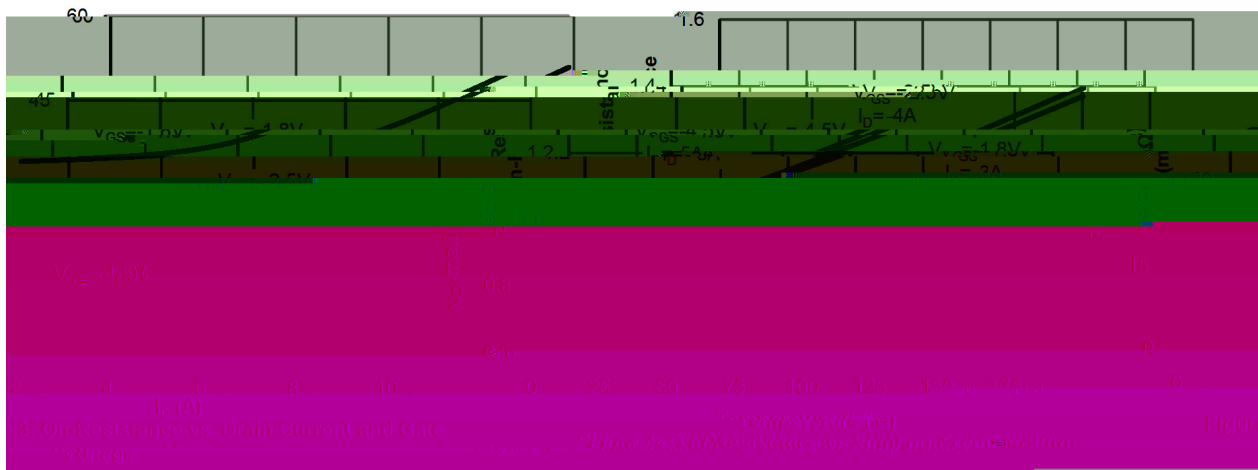
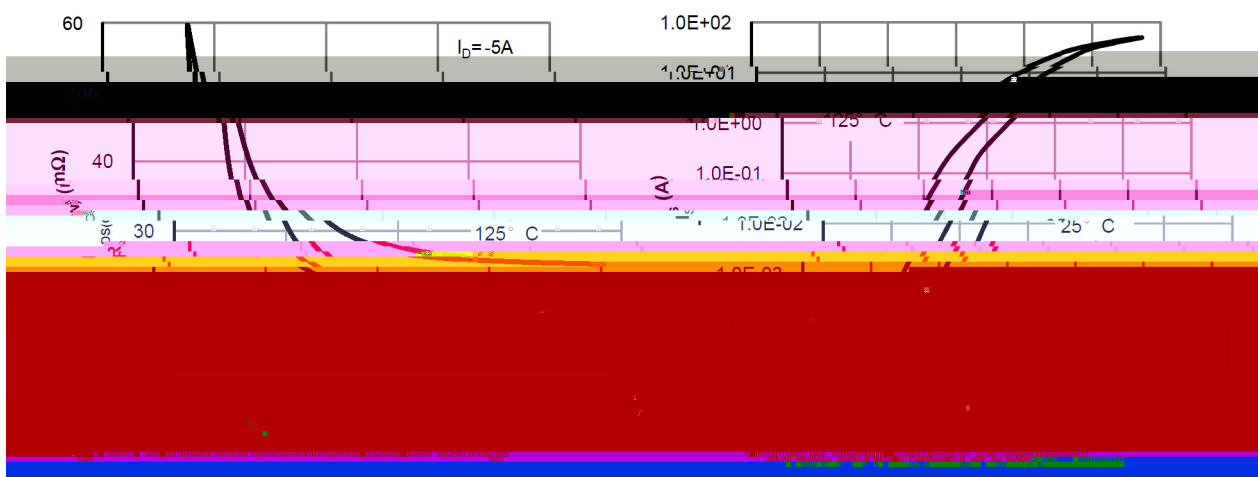


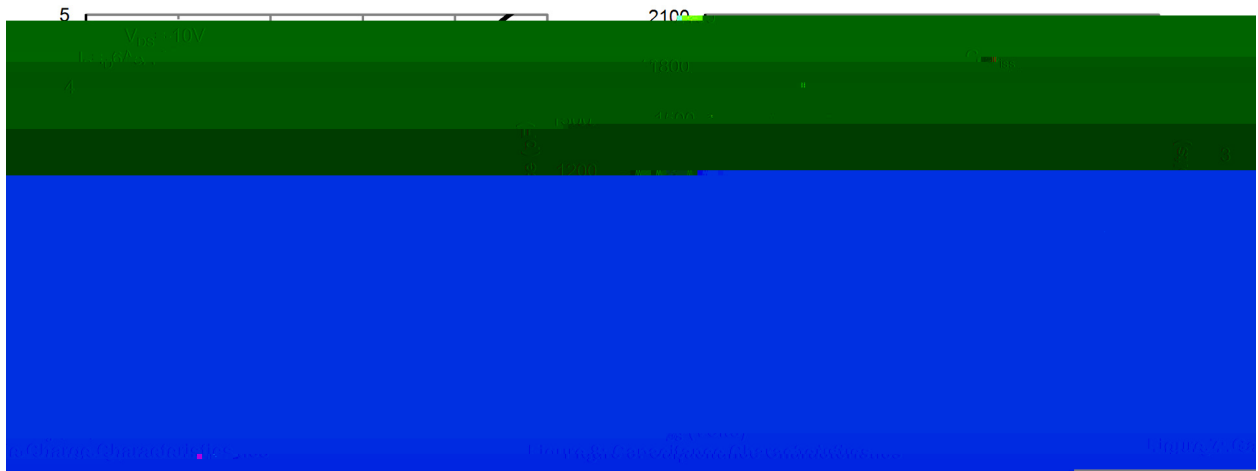
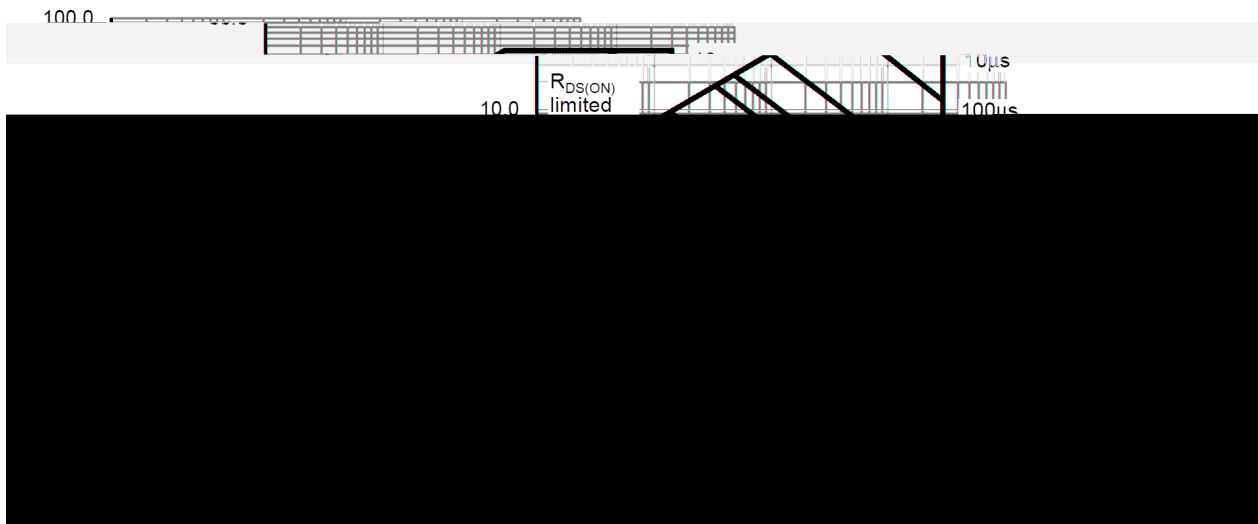
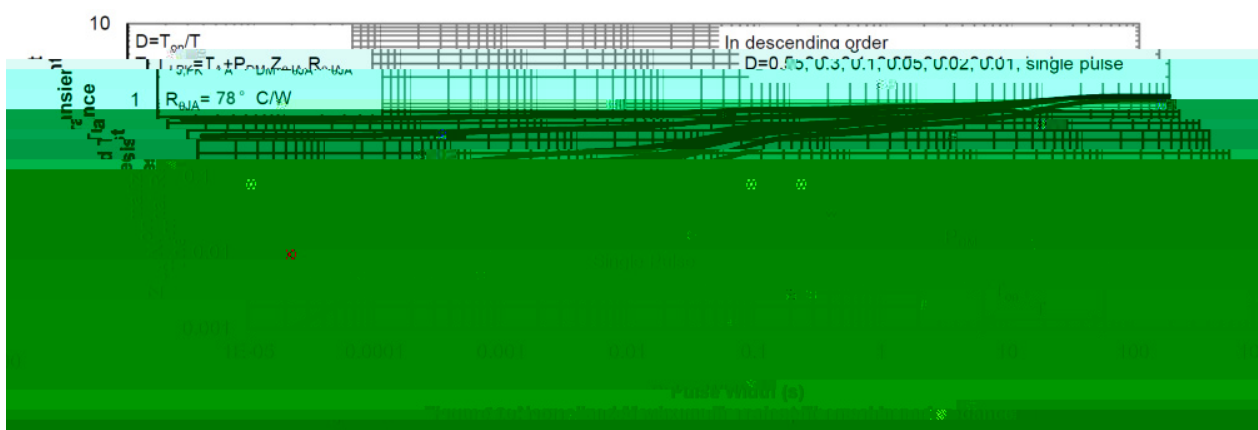


| Parameter                              |              | Symbol                       | Rating         | Unit |
|----------------------------------------|--------------|------------------------------|----------------|------|
| Drain-Source Voltage                   |              | $V_{DSS}$                    | -20            | V    |
| Gate-Source Voltage                    |              | $V_{GSS}$                    | $\pm 12$       | V    |
| Continuous Drain Current               |              | $I_D (T_a=25^\circ\text{C})$ | -9.5           | A    |
| Pulsed Drain Current                   |              | $I_{DM}$                     | -43            | A    |
| Power Dissipation for Single Operation |              | $P_D (T_a=25^\circ\text{C})$ | 2.8            | W    |
| Maximum Junction Temperature           |              | $T_j$                        | 150            |      |
| Storage Temperature Range              |              | $T_{stg}$                    | $-55 \sim 150$ |      |
| Thermal Resistance-Junction to Ambient | $t \sim 10s$ | $R_{\theta JA}$              | 45             | /W   |
|                                        | Steady State |                              | 78             | /W   |

| Parameter                         | Symbol       | Test Conditions                                                         | Min  | Typ   | Max       | Unit       |
|-----------------------------------|--------------|-------------------------------------------------------------------------|------|-------|-----------|------------|
| Drain-Source Breakdown Voltage    | $BV_{DSS}$   | $I_D = -250\mu A$ $V_{GS} = 0V$                                         | -20  | -22.5 |           | V          |
| Zero Gate Voltage Drain Current   | $I_{DSS}$    | $V_{DS} = -20V$ $V_{GS} = 0V$                                           |      |       | -1.0      | $\mu A$    |
| Gate-Body leakage current         | $I_{GSS}$    | $V_{DS} = 0V$ $V_{GS} = \pm 12V$                                        |      |       | $\pm 100$ | nA         |
| Gate Threshold Voltage            | $V_{GS(th)}$ | $V_{DS} = V_{GS}$ $I_D = -250\mu A$                                     | -0.5 | -0.6  | -1.0      | V          |
| Static Drain-Source On-Resistance | $R_{DS(on)}$ | $V_{GS} = -4.5V$ $I_D = -5A$                                            |      | 20    | 22        | m $\Omega$ |
|                                   |              | $V_{GS} = -2.5V$ $I_D = -4A$                                            |      | 26    | 30        |            |
|                                   |              | $V_{GS} = -1.8V$ $I_D = -3A$                                            |      | 35    | 100       |            |
| Diode Forward Voltage             | $V_{SD}$     | $I_S = -1A$ $V_{GS} = 0V$                                               |      |       | -1.2      | V          |
| Gate resistance                   | $R_g$        | $V_{GS} = 0V$ , $f = 1MHz$ $V_{DS} = 0V$ ,                              |      | 11    |           | $\Omega$   |
| Input Capacitance                 | $C_{iss}$    | $V_{GS} = 0V$ $V_{DS} = -5V$ $f = 1MHz$                                 |      | 1700  |           | pF         |
| Output Capacitance                | $C_{oss}$    |                                                                         |      | 600   |           |            |
| Reverse Transfer Capacitance      | $C_{rss}$    |                                                                         |      | 450   |           |            |
| Total Gate Charge                 | $Q_g$        | $V_{GS} = -4.5V$ , $I_D = -6A$ $V_{DS} = -10V$ ,                        |      | 13    |           | nC         |
| Gate Source Charge                | $Q_{gs}$     |                                                                         |      | 2.5   |           |            |
| Gate Drain Charge                 | $Q_{gd}$     |                                                                         |      | 4.2   |           |            |
| Turn-On Delay Time                | $t_{d(on)}$  | $V_{GS} = -4.5V$ $R_L = 1.25\Omega$ $V_{DS} = -10V$ $R_{GEN} = 3\Omega$ |      | 7.5   |           | ns         |
| Turn-On Rise Time                 | $t_r$        |                                                                         |      | 29.2  |           |            |
| Turn-Off Delay Time               | $t_{d(off)}$ |                                                                         |      | 103   |           |            |
| Turn-Off Fall Time                | $t_f$        |                                                                         |      | 50    |           |            |

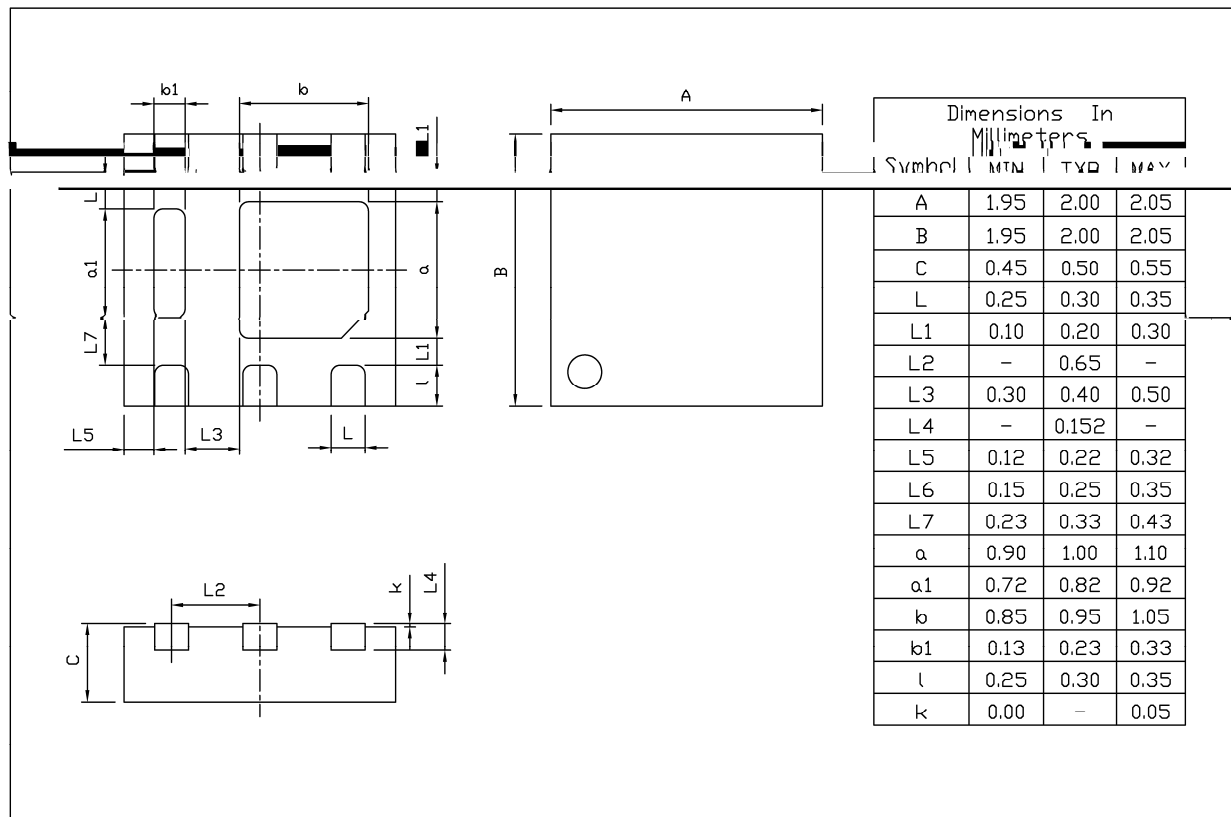


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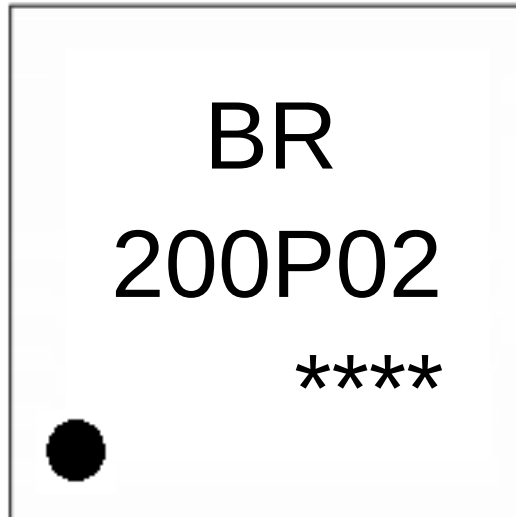


DFN2 ×2B-6L-0.5

Unit:mm



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Note:

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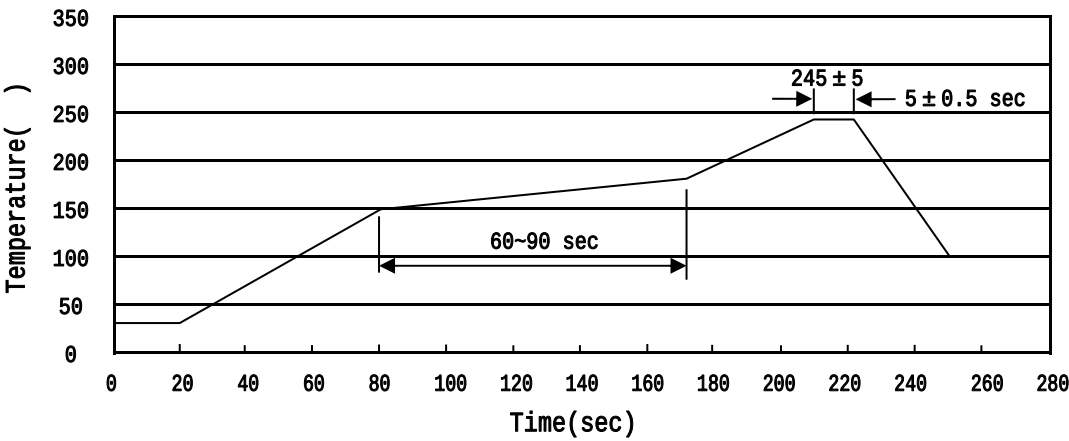
$\mathbb{H} \cdot f \check{\eta}^N \Gamma_D \quad | \quad \mathbb{H} \cdot f \check{\eta}^N \Psi \rho$

Company Code

Product Type Code

Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



注意

1. 预加热: 150~180 °C, Time: 60~90sec;
2. 峰值温度: 245 ± 5 °C, 持续时间: 5 ± 0.5sec;
3. 冷却速度: 2~10 °C/sec.

Note:

- 1.Preheating:150~180 °C, Time:60~90sec.
- 2.Peak Temp.:245 °C, Duration:5 ± 0.5sec.
3. Cooling Speed: 2~10 °C/sec.

峰值温度: 260 ± 5 °C, 持续时间: 10 ± 1 sec. Temp.:260±5 Time:10±1 sec

包装形式 / REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box   | Outer Box   |
| DFN2×2B-6L   | 4,000      | 10              | 40,000          | 4                     | 160,000         | 7 ×8                              | 210×205×205 | 445×435×230 |