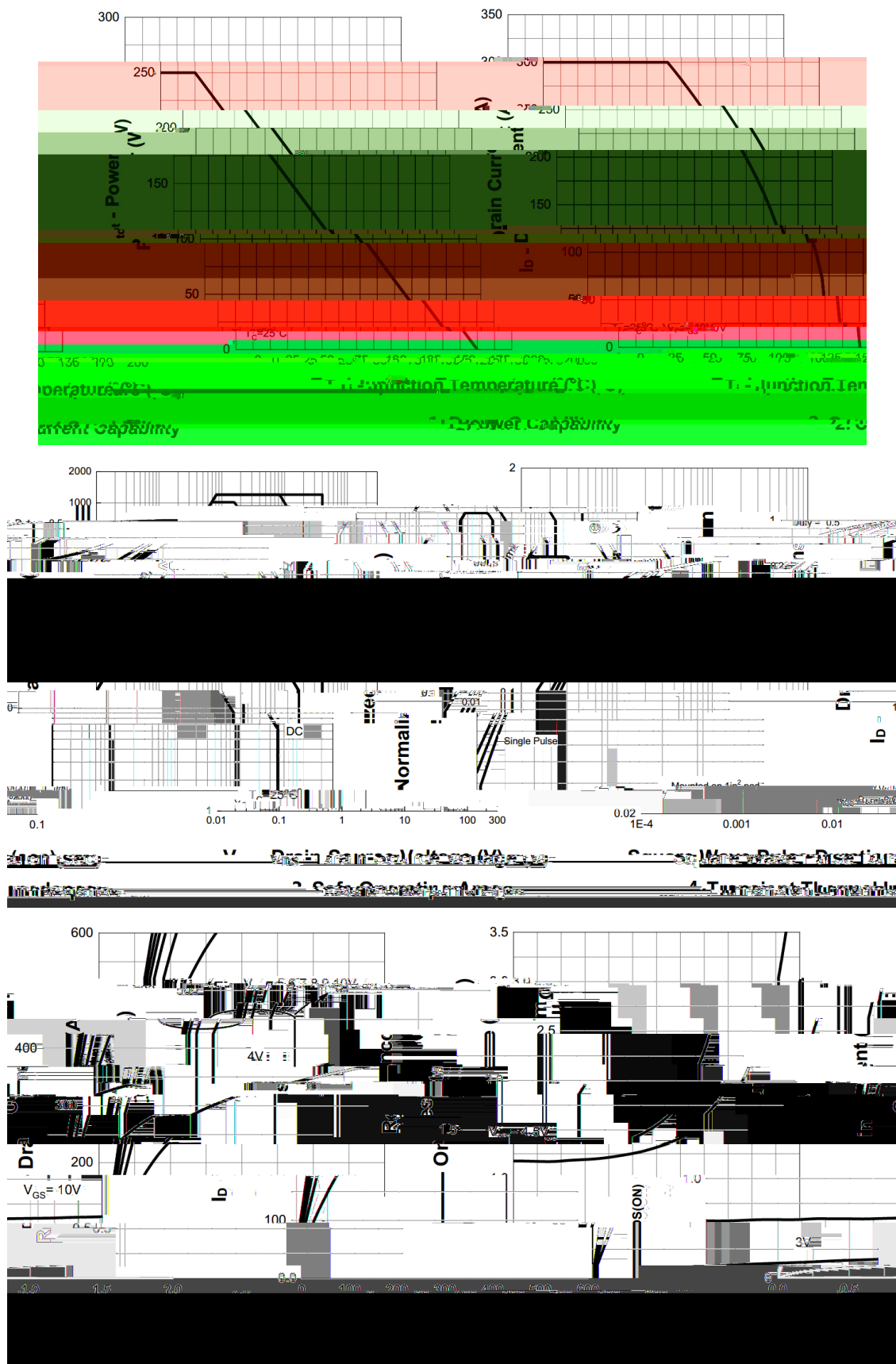




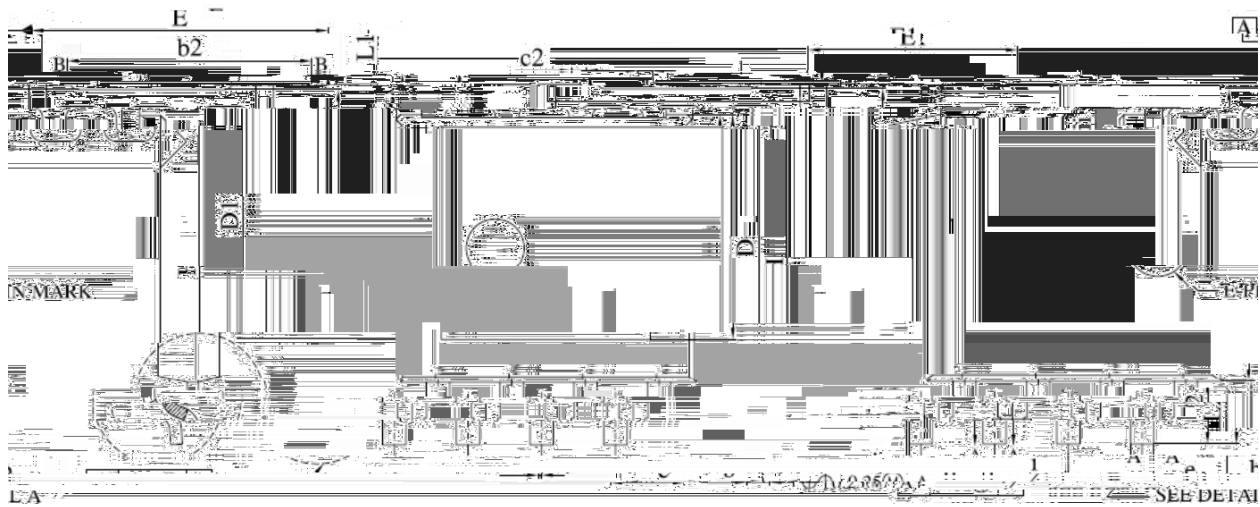
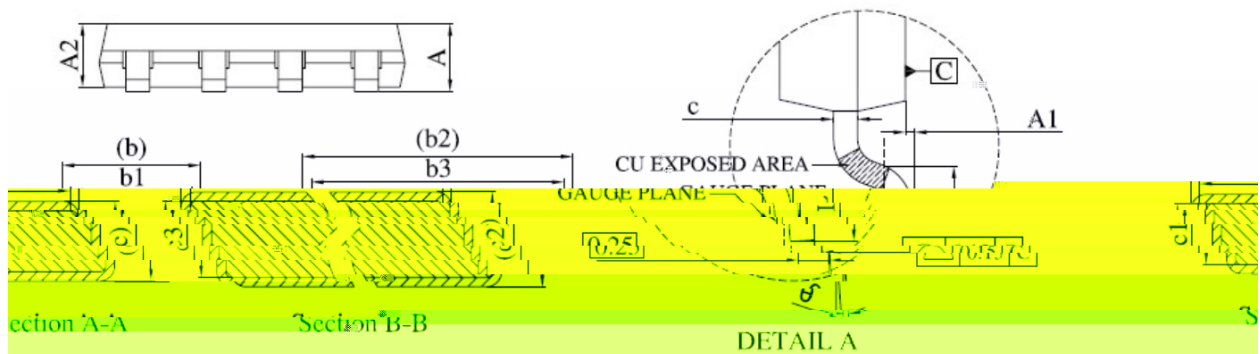
Parameter

Symbol

| Parameter          | Symbol      | Test Conditions                                                                        | Min | Typ | Max | Unit |
|--------------------|-------------|----------------------------------------------------------------------------------------|-----|-----|-----|------|
| Total Gate Charge  | $Q_g$       | $V_{GS}=10V, \quad V_{DS}=20V, \quad I_D=30A$                                          |     | 111 |     | nC   |
| Gate Source Charge | $Q_{gs}$    |                                                                                        |     | 21  |     |      |
| Gate Drain Charge  | $Q_{gd}$    |                                                                                        |     | 27  |     |      |
| Turn-On Delay Time | $t_{d(on)}$ | $V_{GEN}=10V \quad V_{DS}=20V$<br>$R_L=0.66\Omega \quad R_G=3.9\Omega$<br>$I_{DS}=30A$ |     | 18  |     | ns   |







| Dimensions in Millimeters |      |      | Dimensions in Millimeters |           |      |
|---------------------------|------|------|---------------------------|-----------|------|
| Symbol                    | MIN. | MAX. | Symbol                    | MIN.      | MAX. |
| A                         | 1.00 | 1.30 | E                         | 4.95      | 5.30 |
| A1                        | 0.00 | 0.15 | E1                        | 3.50      | 3.70 |
| A2                        | 0.98 | 1.12 | c                         | 1.27 BSC. |      |
| b                         | 0.35 | 0.50 | H                         | 5.95      | 6.25 |
| b1                        | 0.33 | 0.40 | i                         | -         | 0.25 |
| b2                        | 4.00 | 4.41 | L                         | 0.40      | 0.65 |
| b3                        | 4.00 | 4.37 | L1                        | 0.27      | 0.57 |
| c                         | 0.10 | 0.25 | L2                        | 0.90      | 1.20 |
| c2                        | 0.10 | 0.25 | L3                        | 0.27      | 0.57 |
| E                         | 4.95 | 5.30 | L4                        | 0.27      | 0.57 |
| E1                        | 3.50 | 3.70 | L5                        | 0.27      | 0.57 |
| L1                        | 0.27 | 0.57 | L6                        | 0.27      | 0.57 |
| L2                        | 0.90 | 1.20 | L7                        | 0.27      | 0.57 |
| L3                        | 0.27 | 0.57 | L8                        | 0.27      | 0.57 |
| L4                        | 0.27 | 0.57 | L9                        | 0.27      | 0.57 |
| L5                        | 0.27 | 0.57 | L10                       | 0.27      | 0.57 |
| L6                        | 0.27 | 0.57 | L11                       | 0.27      | 0.57 |
| L7                        | 0.27 | 0.57 | L12                       | 0.27      | 0.57 |
| L8                        | 0.27 | 0.57 | L13                       | 0.27      | 0.57 |
| L9                        | 0.27 | 0.57 | L14                       | 0.27      | 0.57 |
| L10                       | 0.27 | 0.57 | L15                       | 0.27      | 0.57 |
| L11                       | 0.27 | 0.57 | L16                       | 0.27      | 0.57 |
| L12                       | 0.27 | 0.57 | L17                       | 0.27      | 0.57 |
| L13                       | 0.27 | 0.57 | L18                       | 0.27      | 0.57 |
| L14                       | 0.27 | 0.57 | L19                       | 0.27      | 0.57 |
| L15                       | 0.27 | 0.57 | L20                       | 0.27      | 0.57 |
| L16                       | 0.27 | 0.57 | L21                       | 0.27      | 0.57 |
| L17                       | 0.27 | 0.57 | L22                       | 0.27      | 0.57 |
| L18                       | 0.27 | 0.57 | L23                       | 0.27      | 0.57 |
| L19                       | 0.27 | 0.57 | L24                       | 0.27      | 0.57 |
| L20                       | 0.27 | 0.57 | L25                       | 0.27      | 0.57 |
| L21                       | 0.27 | 0.57 | L26                       | 0.27      | 0.57 |
| L22                       | 0.27 | 0.57 | L27                       | 0.27      | 0.57 |
| L23                       | 0.27 | 0.57 | L28                       | 0.27      | 0.57 |
| L24                       | 0.27 | 0.57 | L29                       | 0.27      | 0.57 |
| L25                       | 0.27 | 0.57 | L30                       | 0.27      | 0.57 |
| L26                       | 0.27 | 0.57 | L31                       | 0.27      | 0.57 |
| L27                       | 0.27 | 0.57 | L32                       | 0.27      | 0.57 |
| L28                       | 0.27 | 0.57 | L33                       | 0.27      | 0.57 |
| L29                       | 0.27 | 0.57 | L34                       | 0.27      | 0.57 |
| L30                       | 0.27 | 0.57 | L35                       | 0.27      | 0.57 |
| L31                       | 0.27 | 0.57 | L36                       | 0.27      | 0.57 |
| L32                       | 0.27 | 0.57 | L37                       | 0.27      | 0.57 |
| L33                       | 0.27 | 0.57 | L38                       | 0.27      | 0.57 |
| L34                       | 0.27 | 0.57 | L39                       | 0.27      | 0.57 |
| L35                       | 0.27 | 0.57 | L40                       | 0.27      | 0.57 |
| L36                       | 0.27 | 0.57 | L41                       | 0.27      | 0.57 |
| L37                       | 0.27 | 0.57 | L42                       | 0.27      | 0.57 |
| L38                       | 0.27 | 0.57 | L43                       | 0.27      | 0.57 |
| L39                       | 0.27 | 0.57 | L44                       | 0.27      | 0.57 |
| L40                       | 0.27 | 0.57 | L45                       | 0.27      | 0.57 |
| L41                       | 0.27 | 0.57 | L46                       | 0.27      | 0.57 |
| L42                       | 0.27 | 0.57 | L47                       | 0.27      | 0.57 |
| L43                       | 0.27 | 0.57 | L48                       | 0.27      | 0.57 |
| L44                       | 0.27 | 0.57 | L49                       | 0.27      | 0.57 |
| L45                       | 0.27 | 0.57 | L50                       | 0.27      | 0.57 |
| L46                       | 0.27 | 0.57 | L51                       | 0.27      | 0.57 |
| L47                       | 0.27 | 0.57 | L52                       | 0.27      | 0.57 |
| L48                       | 0.27 | 0.57 | L53                       | 0.27      | 0.57 |
| L49                       | 0.27 | 0.57 | L54                       | 0.27      | 0.57 |
| L50                       | 0.27 | 0.57 | L55                       | 0.27      | 0.57 |
| L51                       | 0.27 | 0.57 | L56                       | 0.27      | 0.57 |
| L52                       | 0.27 | 0.57 | L57                       | 0.27      | 0.57 |
| L53                       | 0.27 | 0.57 | L58                       | 0.27      | 0.57 |
| L54                       | 0.27 | 0.57 | L59                       | 0.27      | 0.57 |
| L55                       | 0.27 | 0.57 | L60                       | 0.27      | 0.57 |
| L56                       | 0.27 | 0.57 | L61                       | 0.27      | 0.57 |
| L57                       | 0.27 | 0.57 | L62                       | 0.27      | 0.57 |
| L58                       | 0.27 | 0.57 | L63                       | 0.27      | 0.57 |
| L59                       | 0.27 | 0.57 | L64                       | 0.27      | 0.57 |
| L60                       | 0.27 | 0.57 | L65                       | 0.27      | 0.57 |
| L61                       | 0.27 | 0.57 | L66                       | 0.27      | 0.57 |
| L62                       | 0.27 | 0.57 | L67                       | 0.27      | 0.57 |
| L63                       | 0.27 | 0.57 | L68                       | 0.27      | 0.57 |
| L64                       | 0.27 | 0.57 | L69                       | 0.27      | 0.57 |
| L65                       | 0.27 | 0.57 | L70                       | 0.27      | 0.57 |
| L66                       | 0.27 | 0.57 | L71                       | 0.27      | 0.57 |
| L67                       | 0.27 | 0.57 | L72                       | 0.27      | 0.57 |
| L68                       | 0.27 | 0.57 | L73                       | 0.27      | 0.57 |
| L69                       | 0.27 | 0.57 | L74                       | 0.27      | 0.57 |
| L70                       | 0.27 | 0.57 | L75                       | 0.27      | 0.57 |
| L71                       | 0.27 | 0.57 | L76                       | 0.27      | 0.57 |
| L72                       | 0.27 | 0.57 | L77                       | 0.27      | 0.57 |
| L73                       | 0.27 | 0.57 | L78                       | 0.27      | 0.57 |
| L74                       | 0.27 | 0.57 | L79                       | 0.27      | 0.57 |
| L75                       | 0.27 | 0.57 | L80                       | 0.27      | 0.57 |
| L76                       | 0.27 | 0.57 | L81                       | 0.27      | 0.57 |
| L77                       | 0.27 | 0.57 | L82                       | 0.27      | 0.57 |
| L78                       | 0.27 | 0.57 | L83                       | 0.27      | 0.57 |
| L79                       | 0.27 | 0.57 | L84                       | 0.27      | 0.57 |
| L80                       | 0.27 | 0.57 | L85                       | 0.27      | 0.57 |
| L81                       | 0.27 | 0.57 | L86                       | 0.27      | 0.57 |
| L82                       | 0.27 | 0.57 | L87                       | 0.27      | 0.57 |
| L83                       | 0.27 | 0.57 | L88                       | 0.27      | 0.57 |
| L84                       | 0.27 | 0.57 | L89                       | 0.27      | 0.57 |
| L85                       | 0.27 | 0.57 | L90                       | 0.27      | 0.57 |
| L86                       | 0.27 | 0.57 | L91                       | 0.27      | 0.57 |
| L87                       | 0.27 | 0.57 | L92                       | 0.27      | 0.57 |
| L88                       | 0.27 | 0.57 | L93                       | 0.27      | 0.57 |
| L89                       | 0.27 | 0.57 | L94                       | 0.27      | 0.57 |
| L90                       | 0.27 | 0.57 | L95                       | 0.27      | 0.57 |
| L91                       | 0.27 | 0.57 | L96                       | 0.27      | 0.57 |
| L92                       | 0.27 | 0.57 | L97                       | 0.27      | 0.57 |
| L93                       | 0.27 | 0.57 | L98                       | 0.27      | 0.57 |
| L94                       | 0.27 | 0.57 | L99                       | 0.27      | 0.57 |
| L95                       | 0.27 | 0.57 | L100                      | 0.27      | 0.57 |



BR

006N04S

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Note

BR: Company Code

006N04S: Product Type Code

\*\*\*\*: Lot No. Code, code change with Lot No.

### Temperature Profile for IR Reflow Soldering(Pb-Free)

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|  |
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|  |
|  |

#### Note:

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

|       |           |             |               |
|-------|-----------|-------------|---------------|
| 260±5 | 10±1 sec. | Temp.:260±5 | Time:10±1 sec |
|-------|-----------|-------------|---------------|

/ REEL

| Package Type | Units ;>β fH | Dimension ;>β p . (unit ~ mm <sup>3</sup> ) |
|--------------|--------------|---------------------------------------------|
|--------------|--------------|---------------------------------------------|