

## / Descriptions

MOS

N-Channel MOSFET in a SOP-8 Plastic Package.

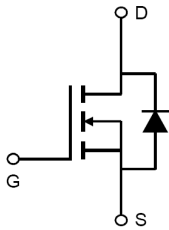
## / Features

Low  $R_{DS(ON)}$ , Low Gate Charge, Optimized for fast-switching, RoHS.

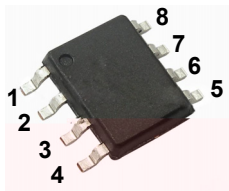
## / Applications

Synchronous Rectification in DC/DC and AC/DC Converters, Isolated DC/DC Converters in Telecom and Industrial.

## / Equivalent Circuit



## / Pinning



PIN1:S      PIN 2:S      PIN 3   S      PIN 4   G  
 PIN5   PIN 6   PIN 7   PIN 8:D

## / $h_{FE}$ Classifications & Marking

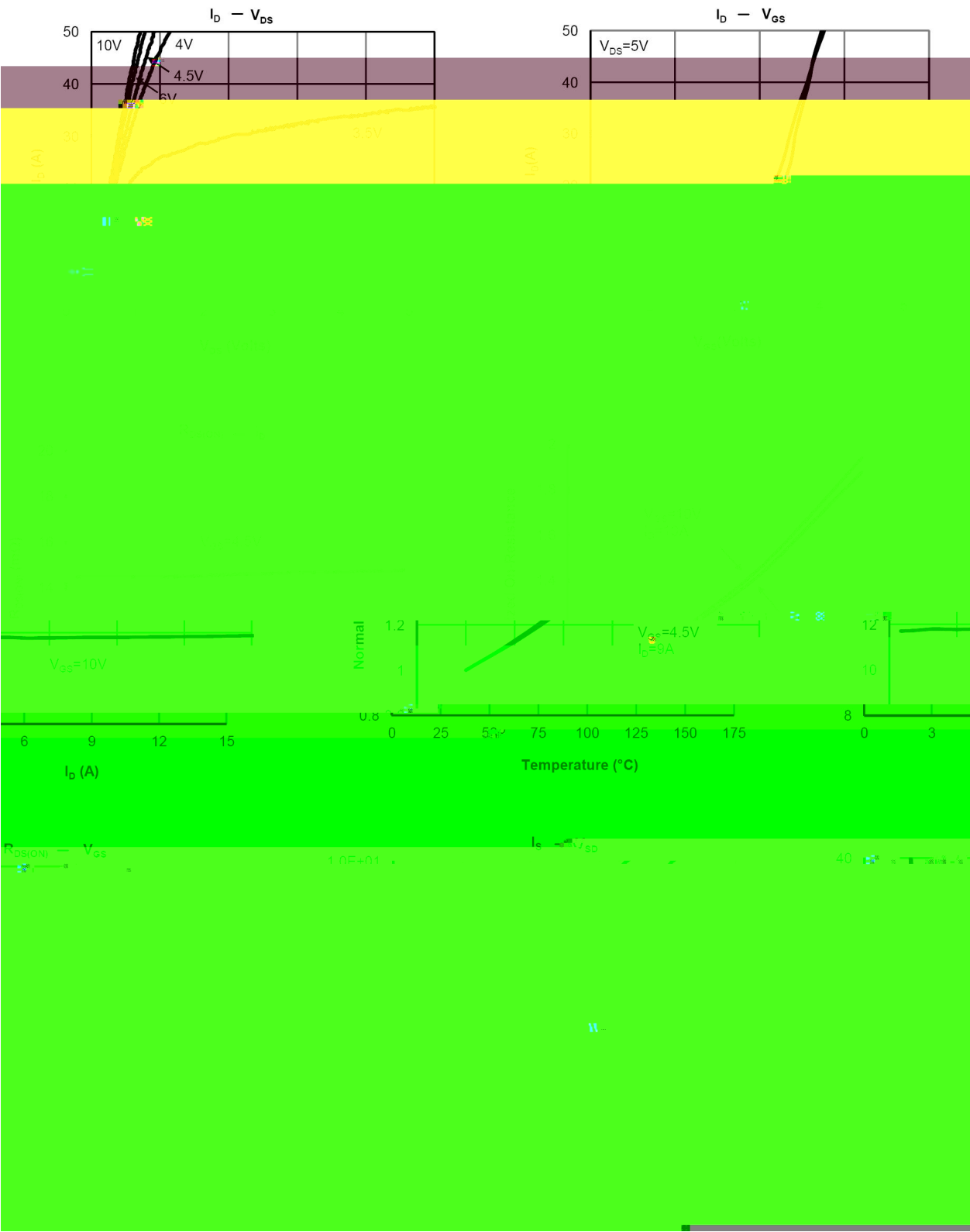
See Marking Instructions.

**BRCS4266SC**

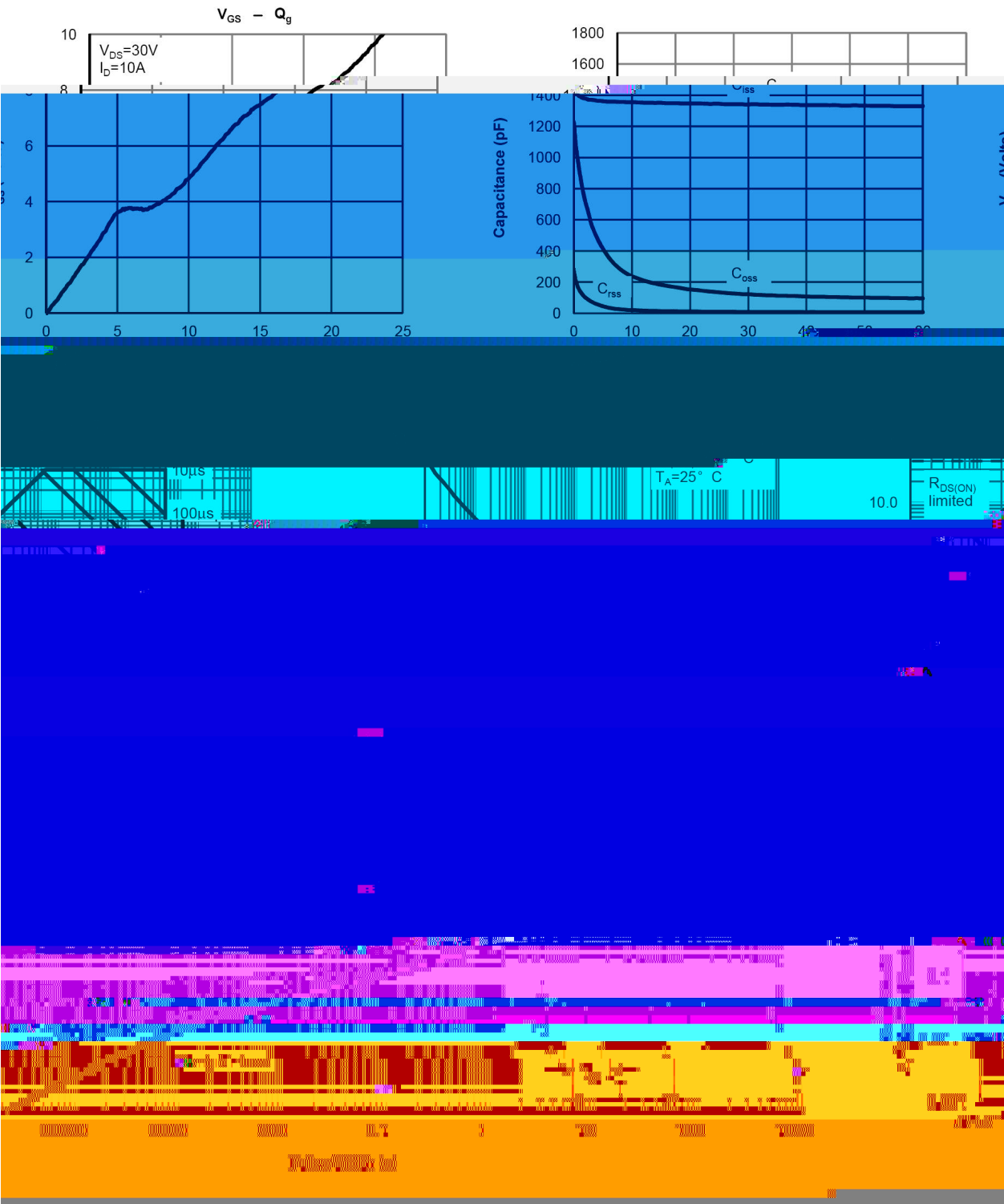
## / Electrical Characteristics(Ta=25 )

| Parameter                    | Symbol    | Test Conditions                           | Min | Typ  | Max | Unit |
|------------------------------|-----------|-------------------------------------------|-----|------|-----|------|
| Input Capacitance            | $C_{iss}$ | $V_{DS}=30V$ $V_{GS}=0V$<br>$f=1.0MHz$    |     | 1340 |     | pF   |
| Output Capacitance           | $C_{oss}$ |                                           |     | 123  |     |      |
| Reverse Transfer Capacitance | $C_{rss}$ |                                           |     | 10   |     |      |
| Gate resistance              | $R_g$     | $f=1.0MHz$                                | 0.7 | 1.5  | 2.3 |      |
| Total Gate Charge(10V)       | $Q_g$     | $V_{DD}=10V$<br>$I_D=10A$<br>$V_{DS}=30V$ |     | 21   | 30  | nC   |
| Total Gate Charge(4.5V)      |           |                                           |     | 9.0  | 15  |      |
| Gate-Source Charge           | $Q_{gs}$  |                                           |     | 4.7  |     |      |
| Gate-Drain Charge            | $Q_{gd}$  |                                           |     | 2.6  |     |      |
| Turn-On Delay Time           | $t$       |                                           |     |      |     |      |

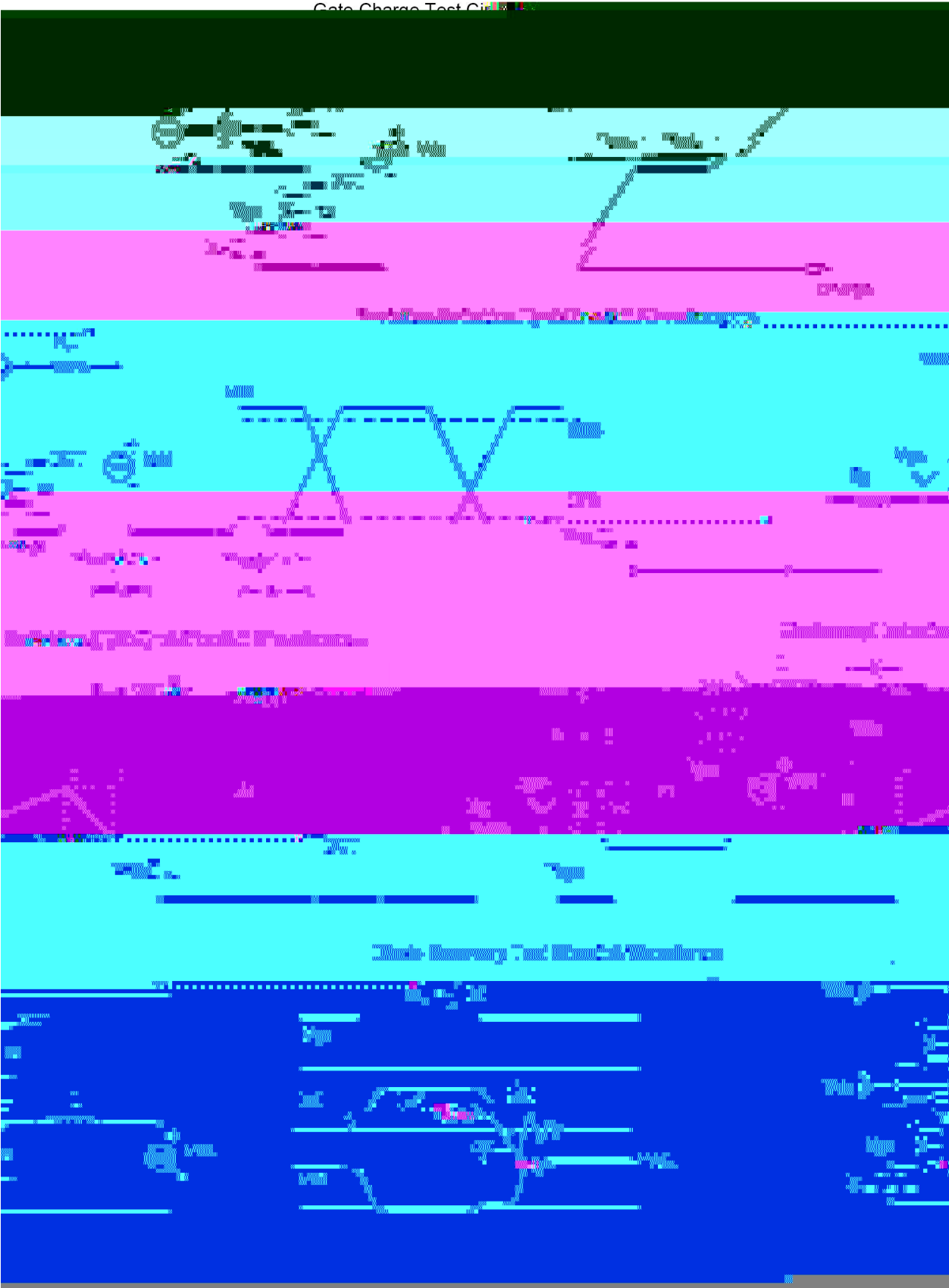
/ Electrical Characteristic Curve



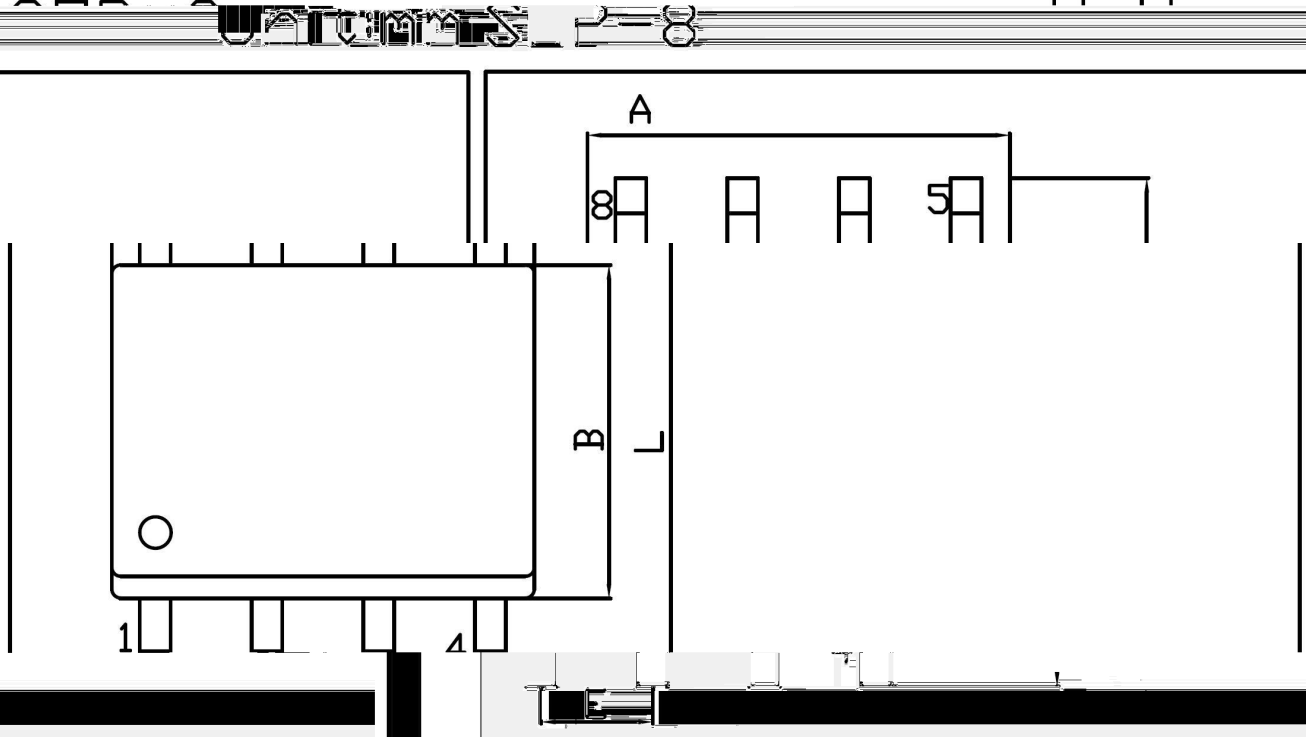
/ Electrical Characteristic Curve



/ Test Circuit & Waveform

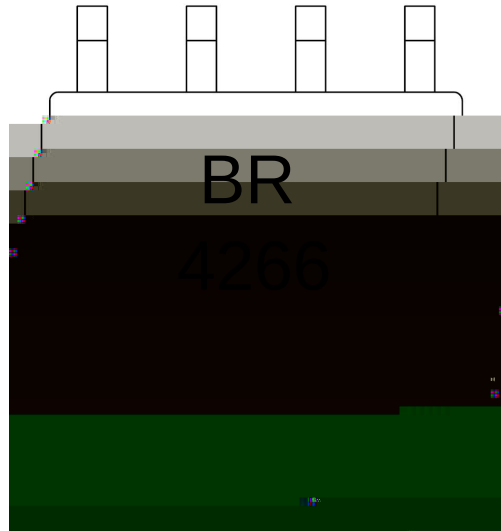


/ Package Dimensions



| Dimensions In Millimeters |         |        | Dimensions In Millimeters |      |        |
|---------------------------|---------|--------|---------------------------|------|--------|
| Min.                      | Max.    | Symbol | Min.                      | Max. | Symbol |
| 4.72                      | 5.16    |        | 4.05                      | 4.75 |        |
|                           |         |        |                           |      |        |
| L                         | 5.80    | 6.20   | R                         | 0.30 | 0.60   |
| E                         | 1.27BSC |        | P                         | 0°   | 7°     |
| W                         | 2.12    | 2.77   | H                         | 0.40 | 1.25   |

**/ Marking Instructions**



BR

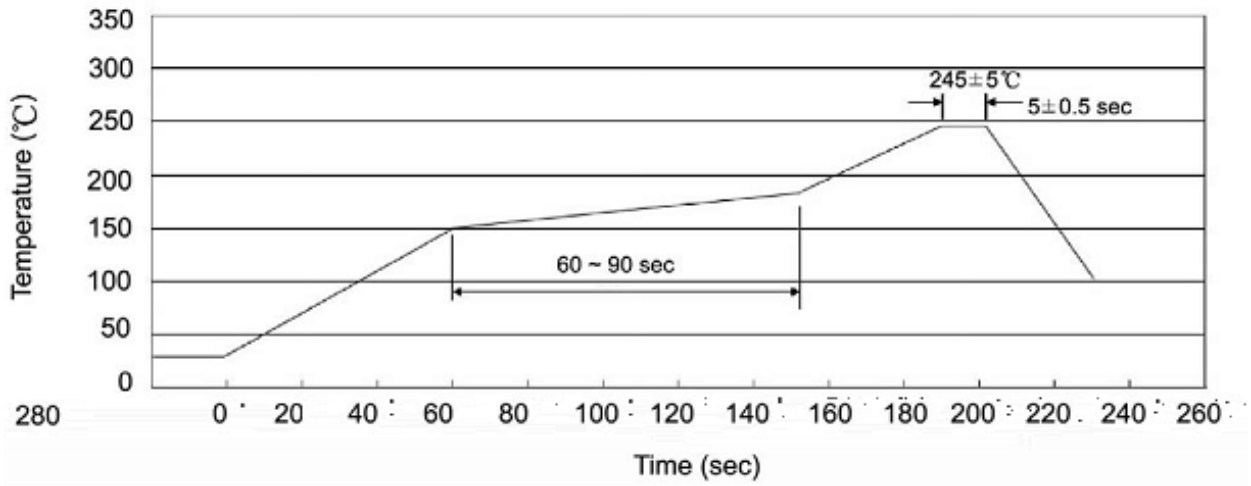
Note:

BR: Company Code.

4266 Product Type.

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

( ) /



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.            |