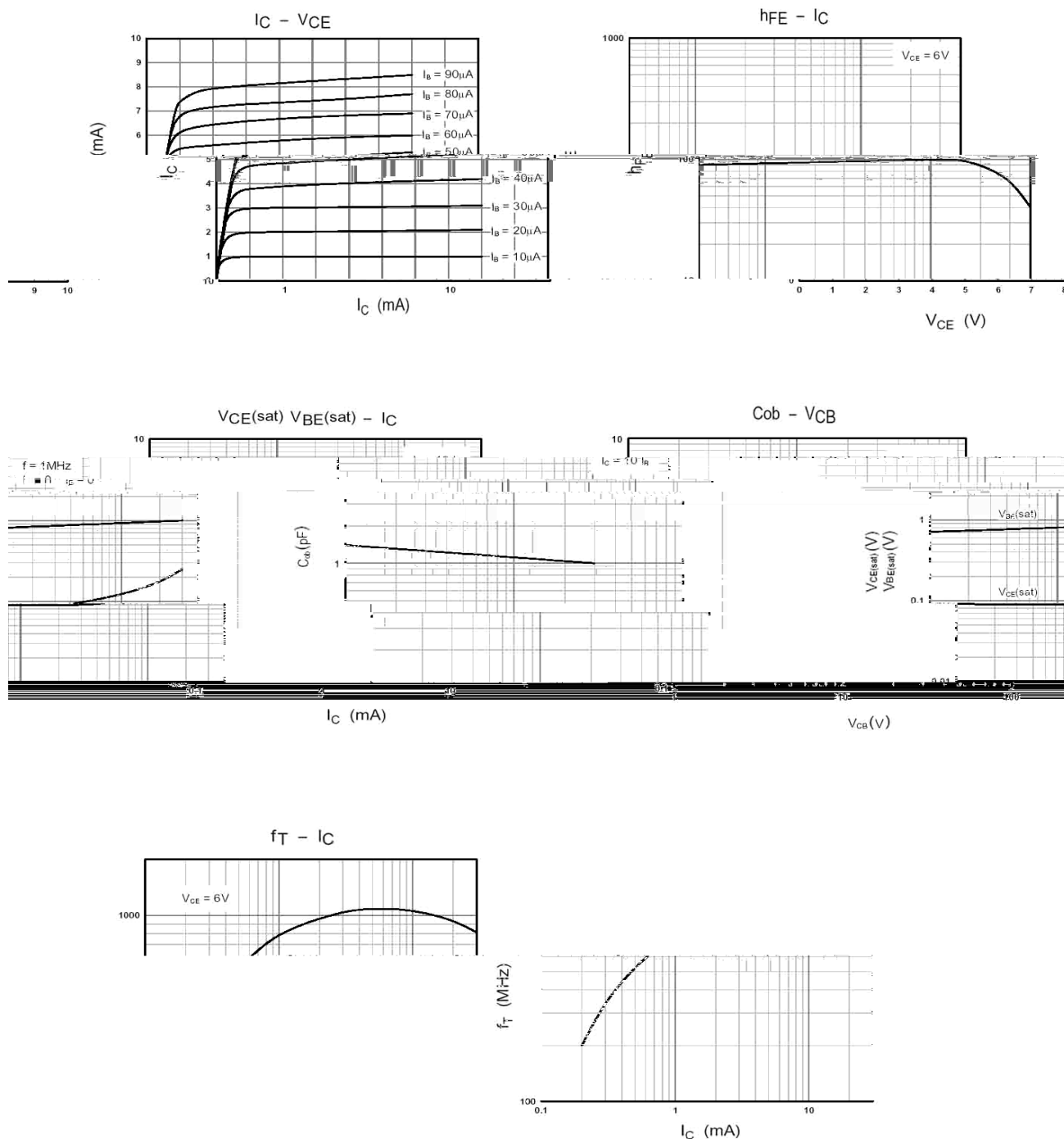


2SB1426

| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | -20     | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | -20     | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | -6.0    | V    |
| Collector Current - Continuous | $I_C$     | -3.0    | A    |
| Collector Power Dissipation    | $P_C$     | 750     | mW   |
| Junction Temperature           | $T_j$     | 150     |      |
| Storage Temperature Range      | $T_{stg}$ | -55 150 |      |

| Parameter                               | Symbol        | Test Conditions                              | Min  | Typ | Max  | Unit    |
|-----------------------------------------|---------------|----------------------------------------------|------|-----|------|---------|
| Collector to Base Breakdown Voltage     | $V_{CBO}$     | $I_C = -50\mu A$ $I_E = 0$                   | -20  |     |      | V       |
| Collector to Emitter Breakdown Voltage  | $V_{CEO}$     | $I_C = -1.0mA$ $I_B = 0$                     | -20  |     |      | V       |
| Emitter to Base Breakdown Voltage       | $V_{EBO}$     | $I_E = -10\mu A$ $I_C = 0$                   | -6.0 |     |      | V       |
| Collector Cut-Off Current               | $I_{CBO}$     | $V_{CB} = -20V$ $I_E = 0$                    |      |     | -0.1 | $\mu A$ |
| Collector Cut-Off Current               | $I_{CEO}$     | $V_{EB} = -5.0V$ $I_C = 0$                   |      |     | -0.1 | $\mu A$ |
| DC Current Gain                         | $h_{FE}$      | $V_{CE} = -2.0V$ $I_C = -100mA$              | 82   |     | 390  |         |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -2.0A$ $I_B = -0.1A$                  |      |     | -0.5 | V       |
| Transition Frequency                    | $f_T$         | $V_{CE} = -2.0V$ $f = 100MHz$ $I_C = -500mA$ |      | 240 |      | MHz     |
| Collector Output Capacitance            | $C_{ob}$      | $V_{CB} = -10V$ $f = 1.0MHz$ $I_E = 0$       |      | 35  |      | pF      |

/ Electrical Characteristic Curve



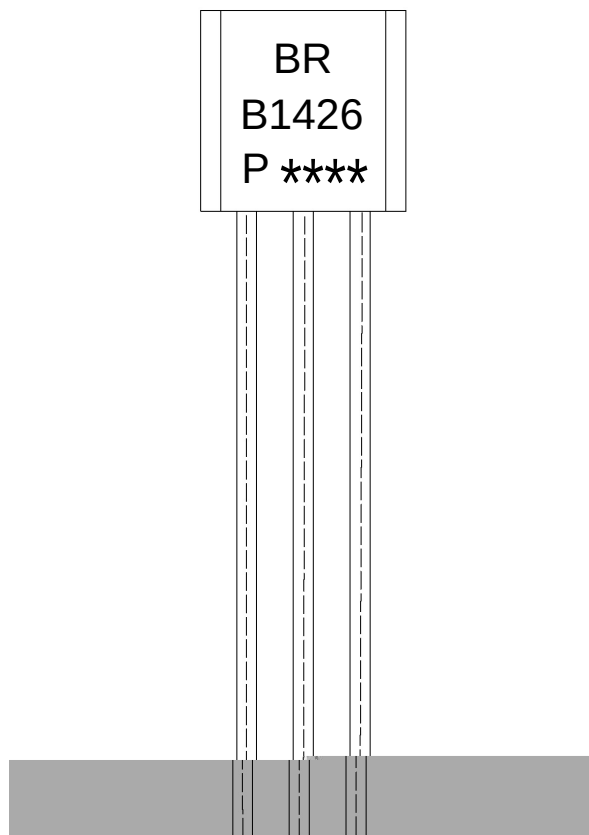
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

B1426

P:  $h_{FE}$

\*\*\*\*

Note:

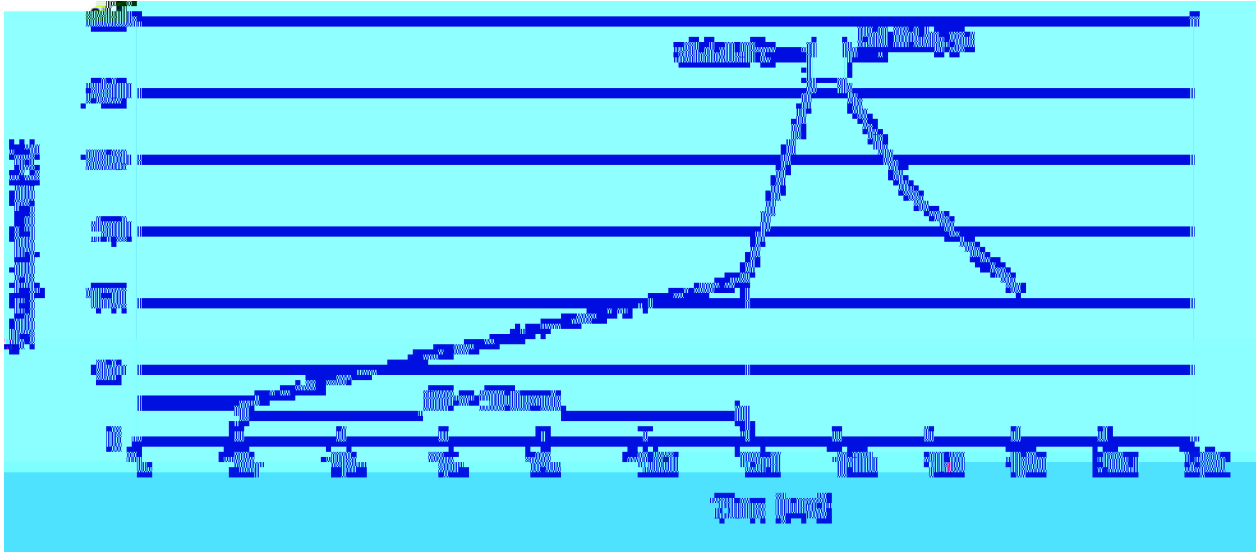
BR: Company Code.

B1426: Product Type.

P:  $h_{FE}$  Classifications Symbol

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

( ) / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- |   |       |     |           |                                         |                                      |
|---|-------|-----|-----------|-----------------------------------------|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec;                                  | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 |     | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |                                      |
| 3 |       | 2   | 10        | /sec.                                   | 3. Cooling Speed: 2~10 /sec.         |

/ Resistance to Soldering Heat Test Conditions

270±5                      10±1 sec.                      Temp:270±5                      Time:10±1 sec

/ Packaging SPEC.

/ BULK

| Package Type | Units          |                     |                      |                            |                      | Dimension (unit mm3) |             |             |
|--------------|----------------|---------------------|----------------------|----------------------------|----------------------|----------------------|-------------|-------------|
|              | Units/Bag<br>/ | Bags/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Bag                  | Inner Box   | Outer Box   |
| TO-92        | 1,000          | 10                  | 10,000               | 5                          | 50,000               | 135×190              | 237×172×102 | 560×245×195 |
|              | 1,000          | 10                  | 10,000               | 10                         | 100,000              | 135×190              | 237×172×102 | 560×245×375 |

/ AMMO

| Package Type | Units           |                     |                     |                            |                      | Dimension (unit mm3) |                            |
|--------------|-----------------|---------------------|---------------------|----------------------------|----------------------|----------------------|----------------------------|
|              | Units/tape<br>/ | Tape/Inner Box<br>/ | Rows/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | Inner Box            | Outer Box                  |
| TO-92        | 3,000           | 1                   | 120                 | 10                         | 30,000               | 328×230×42           | 480×346×235<br>547×407×268 |

/ Notices