

Rev. C Oct.-2018

TO-220

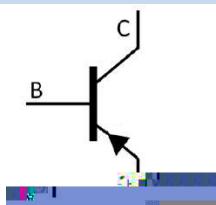
PNP

Silicon PNP transistor in a TO-220 Plastic Package.

BR2N6488

Complement to BR2N6488.

Use in general-purpose amplifier and switching applications.



PIN1 Base

PIN 2 Collector

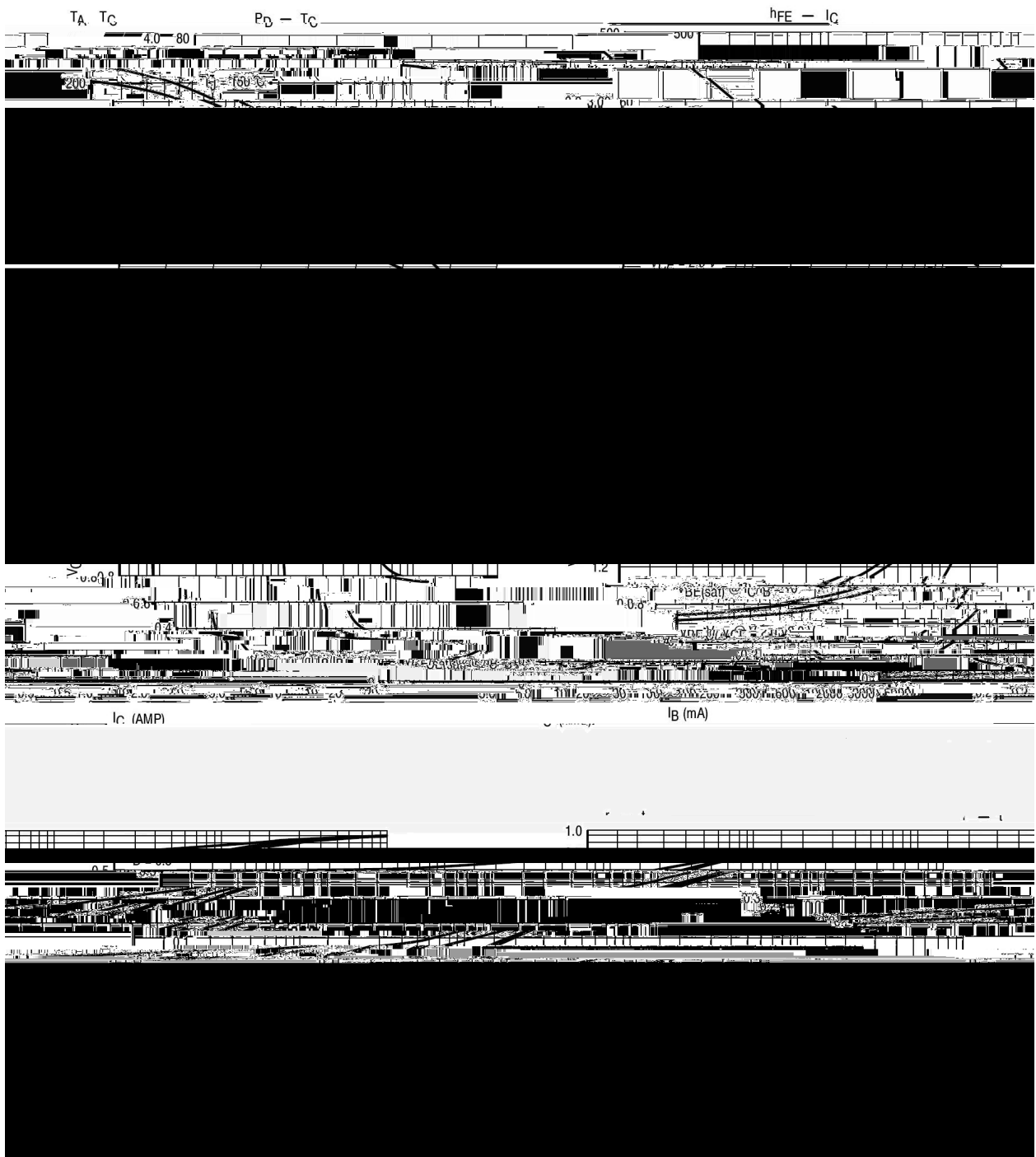
PIN 3 Emitter

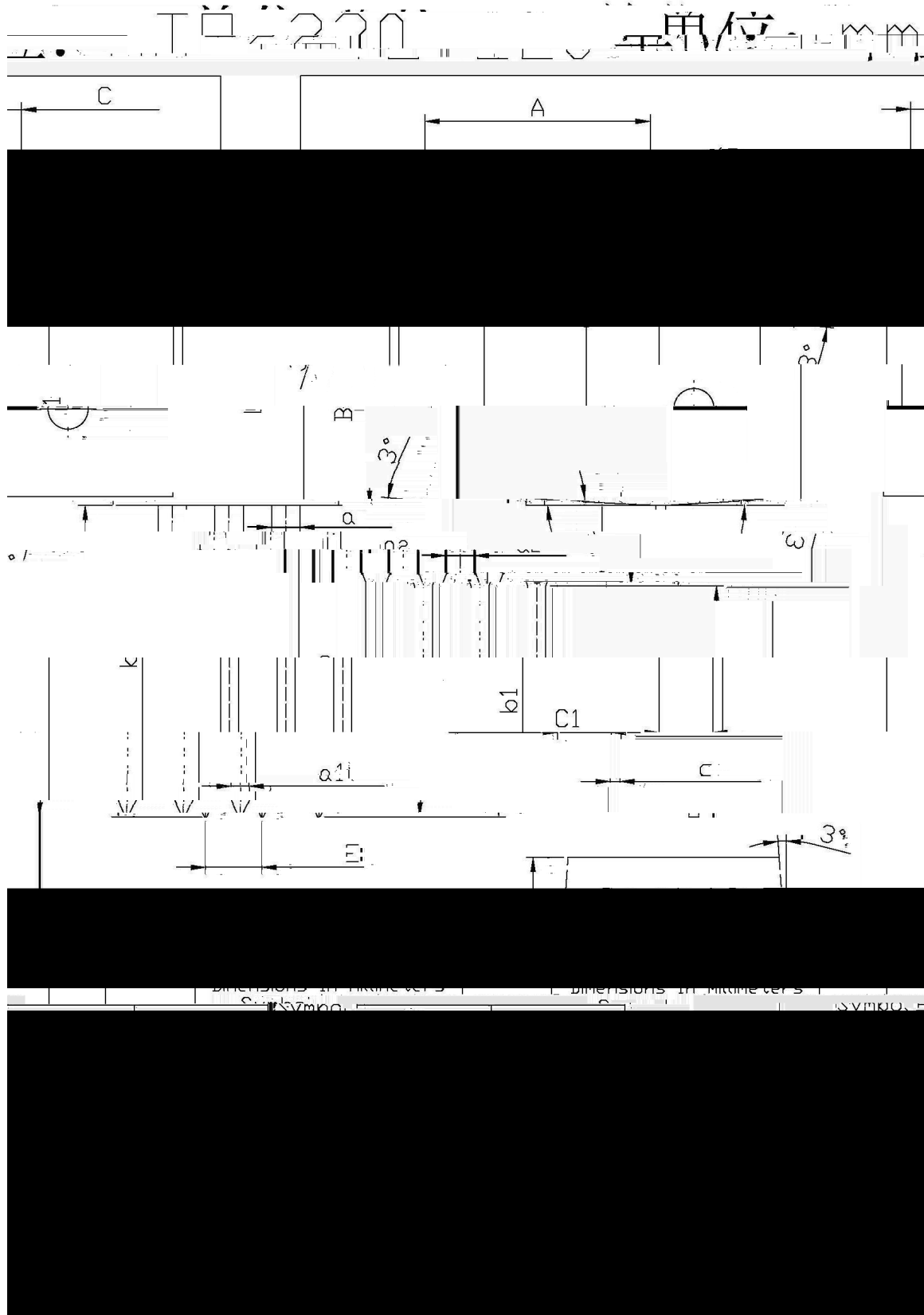
See Marking Instructions.

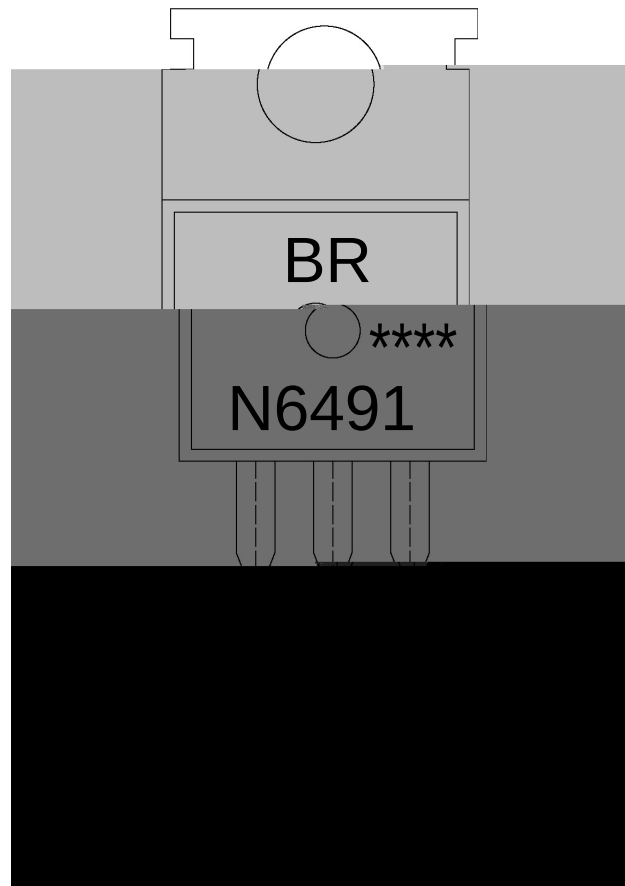
| Parameter                                        | Symbol                      | Rating   | Unit |
|--------------------------------------------------|-----------------------------|----------|------|
| Collector to Base Voltage                        | $V_{CBO}$                   | -90      | V    |
| Collector to Emitter Voltage                     | $V_{CEO}$                   | -80      | V    |
| Emitter to Base Voltage                          | $V_{EBO}$                   | -5.0     | V    |
| Collector Current - Continuous                   | $I_C$                       | -15      | A    |
| Base Current                                     | $I_B$                       | -5.0     | A    |
| Total Power Dissipation                          | $P_D(T_C=25^\circ\text{C})$ | 75       | W    |
|                                                  | $P_D(T_A=25^\circ\text{C})$ | 1.8      | W    |
| Operating and Storage Junction Temperature Range | $T_j T_{stg}$               | -65 +150 |      |
| Thermal Resistance Junction to Case              | $R_{\theta JC}$             | 1.67     | /W   |
| Thermal Resistance Junction to Ambient           | $R_{\theta JA}$             | 70       | /W   |

| Parameter                               | Symbol         | Test Conditions                                           | Min | Typ | Max  | Unit          |
|-----------------------------------------|----------------|-----------------------------------------------------------|-----|-----|------|---------------|
| Collector Emitter Sustaining Voltage    | $V_{CEO(sus)}$ | $I_C=-200\text{mA}$ $I_B=0$                               | -80 |     |      | V             |
| Collector Emitter Sustaining Voltage    | $V_{CEX}$      | $I_C=-200\text{mA}$ $V_{BE}=-1.5\text{V}$                 | -90 |     |      | V             |
| Collector Cut-Off Current               | $I_{CEX}$      | $V_{CB}=-85\text{V}$ $V_{BE(off)}=-1.5\text{V}$           |     |     | -500 | $\mu\text{A}$ |
|                                         |                | $V_{CB}=-80\text{V}$ $V_{BE(off)}=-1.5\text{V}$ $T_C=150$ |     |     | -5.0 | $\mu\text{A}$ |
| Collector Cut-Off Current               | $I_{CEO}$      | $V_{CE}=-40\text{V}$ $I_B=0$                              |     |     | -1.0 | mA            |
| Emitter Cut-Off Current                 | $I_{EBO}$      | $V_{EB}=-5.0\text{V}$ $I_C=0$                             |     |     | -1.0 | mA            |
| DC Current Gain                         | $h_{FE(1)}$    | $V_{CE}=-4.0\text{V}$ $I_C=-5.0\text{A}$                  | 20  |     | 150  |               |
|                                         | $h_{FE(2)}$    | $V_{CE}=-4.0\text{V}$ $I_C=-15\text{A}$                   | 5.0 |     |      |               |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$  | $I_C=-5.0\text{A}$ $I_B=-0.5\text{A}$                     |     |     | -1.3 | V             |
|                                         |                | $I_C=-15\text{A}$ $I_B=-5.0\text{A}$                      |     |     | -3.5 | V             |

Base to Emitter On Voltage      V







BR

N6491

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Note:

BR: Company Code

N6491: Product Type.

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

