

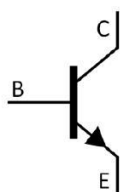
# TIP31

Rev. H Oct.-2018

WR0553 ММ Ё QSQ Æ M ç s ll 1 Silicon NPN transistor in a TO-220 Plastic Package.

лъ WLS65 Ы ´  
Complement to TIP32.

Ѓˆˆ А I ' ı Ó Ą H ˆ z  
Medium power linear switching applications.



PIN1 χ Base      PIN 2 χ Collector      PIN 3 χ Emitter

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

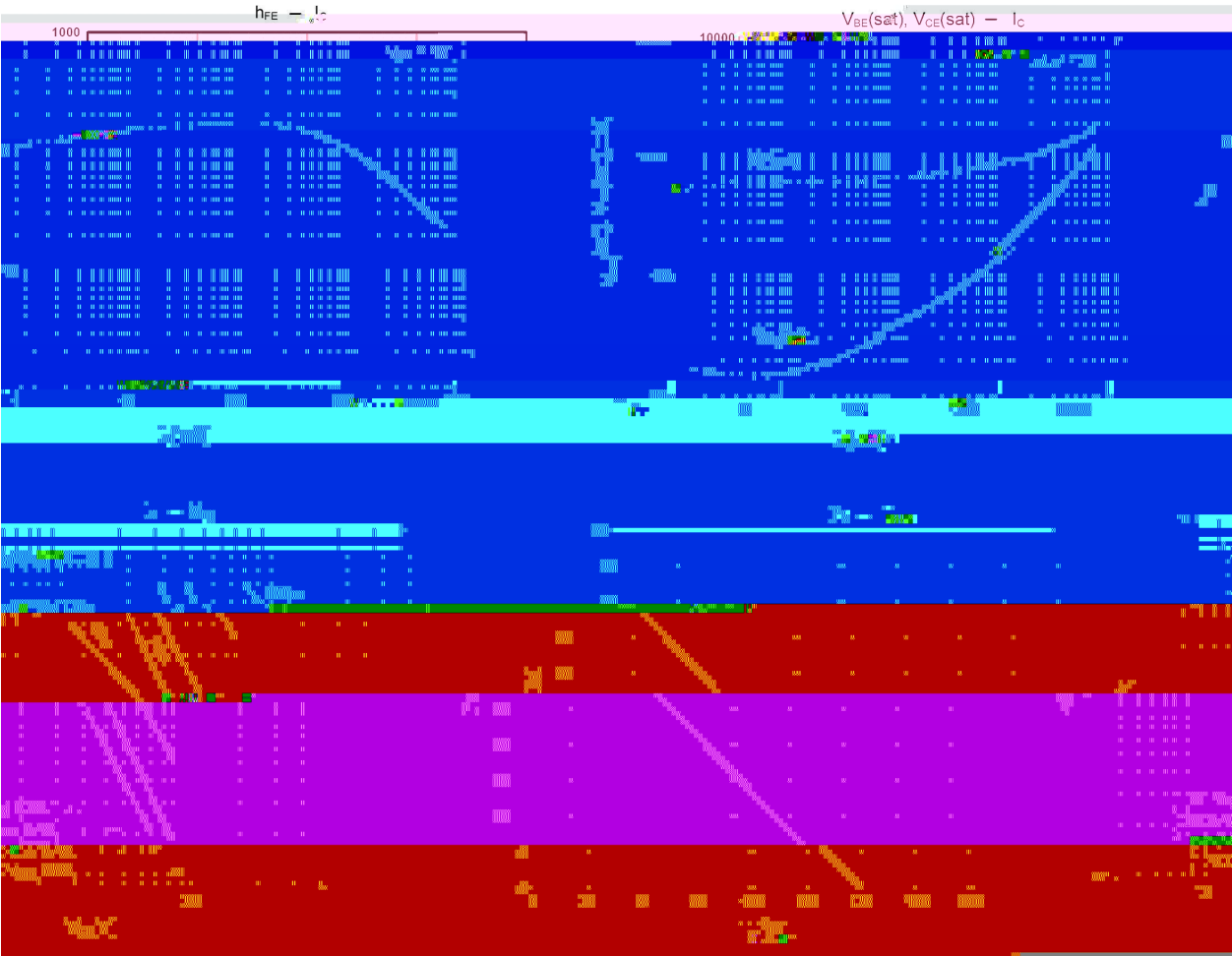
# TIP31

Rev. H Oct.-2018

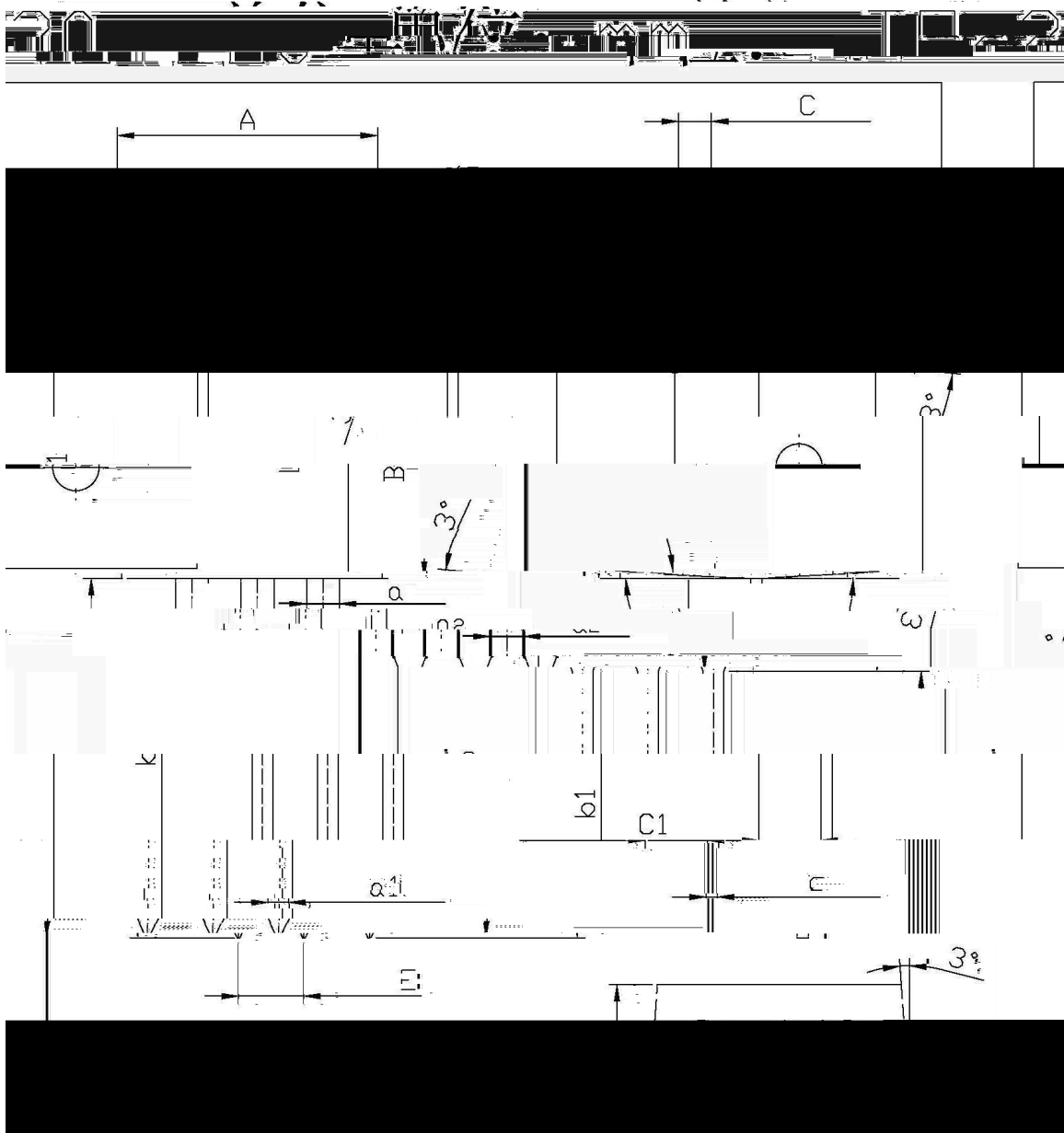
| Parameter                      | Symbol                 | Rating    |        |        |        | Unit |
|--------------------------------|------------------------|-----------|--------|--------|--------|------|
|                                |                        | TIP31     | TIP31A | TIP31B | TIP31C |      |
| Collector to Base Voltage      | $V_{CBO}$              | 40        | 60     | 80     | 100    | V    |
| Collector to Emitter Voltage   | $V_{CEO}$              | 40        | 60     | 80     | 100    | V    |
| Emitter to Base Voltage        | $V_{EBO}$              | 5.0       |        |        |        | V    |
| Collector Current - Continuous | $I_C$                  | 3.0       |        |        |        | A    |
| Peak Collector Current         | $I_{CP}$               | 5.0       |        |        |        | A    |
| Base Current - Continuous      | $I_B$                  | 1.0       |        |        |        | A    |
| Collector Power Dissipation    | $P_C$                  | 2.0       |        |        |        | W    |
| Collector Power Dissipation    | $P_C (T_c=25^\circ C)$ | 40        |        |        |        | W    |
| Junction Temperature           | $T_j$                  | 150       |        |        |        |      |
| Storage Temperature Range      | $T_{sag}$              | -55 ~ 150 |        |        |        |      |

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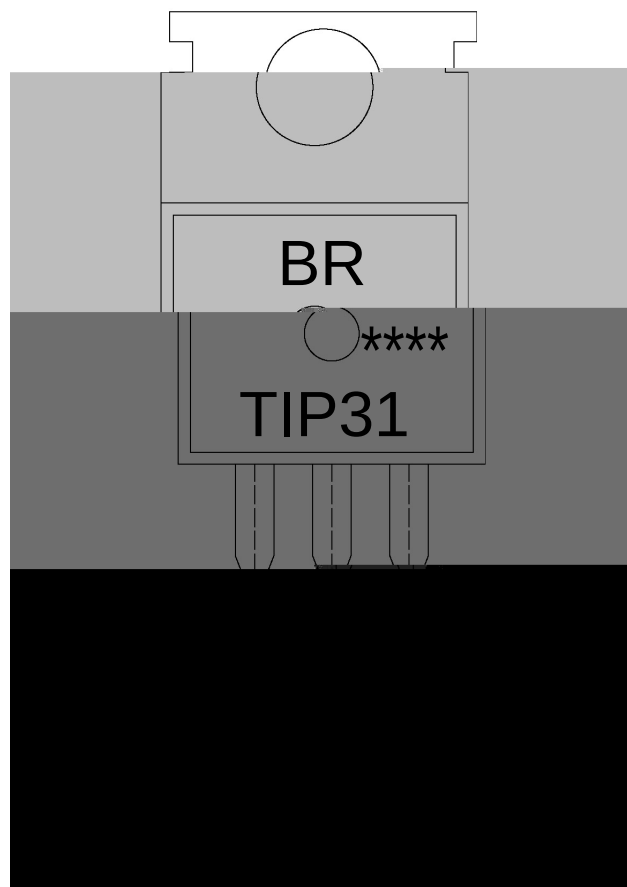
/ Electrical Characteristic Curve



## / Package Dimensions



/ Marking Instructions



б " X

BR X

TIP31 X

---- X

Note:

BR:

TIP31:

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Company Code

Product Type.

Lot No. Code, code change with Lot No.

