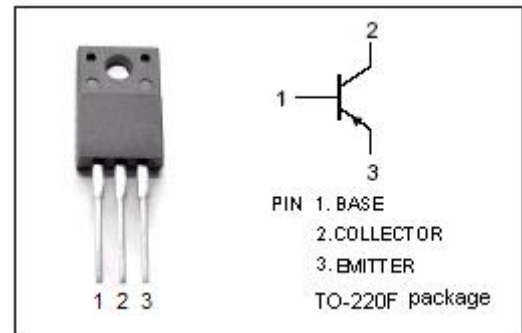


isc Silicon PNP Power Transistor
KTB1369
DESCRIPTION

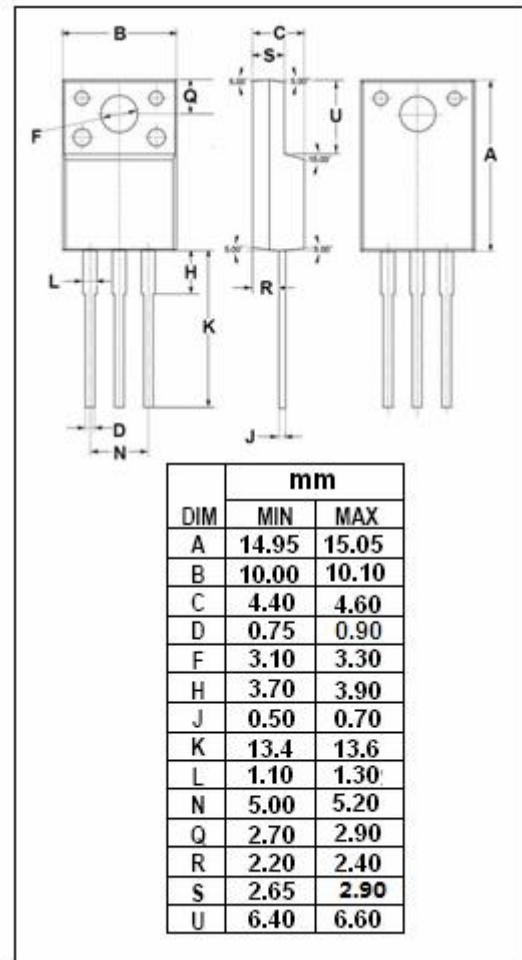
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -180V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max})@ (I_C = -0.5A, I_B = -50mA)$
- Complement to Type KTD2061
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High Voltage application
- TV, monitor vertical output application
- Driver stage application
- Color TV class B sound output application


ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -200 | V |
| V_{CEO} | Collector-Emitter Voltage | -180 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current-Continuous | -2 | A |
| I_B | Base Current-Continuous | -0.2 | A |
| P_C | Collector Power Dissipation @ $T_C = 25^\circ\text{C}$ | 20 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature | -55~150 | $^\circ\text{C}$ |



isc Silicon PNP Power Transistor
KTB1369
ELECTRICAL CHARACTERISTICS

 T_j=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -10mA; I _B = 0 | -180 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -0.5A; I _B = -50mA | | | -1.0 | V |
| V _{BE(on)} | Base-Emitter On Voltage | I _C = -0.5A; V _{CE} = -5V | | | -1.0 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -200V; I _E = 0 | | | -1.0 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -1.0 | μ A |
| h _{FE} | DC Current Gain | I _C = -0.4A; V _{CE} = -10V | 70 | | 240 | |
| f _T | Current-Gain—Bandwidth Product | I _C = -0.4A; V _{CE} = -10V | | 100 | | MHz |

◆ h_{FE} Classification

| | |
|--------|---------|
| O | Y |
| 70-140 | 120-240 |

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