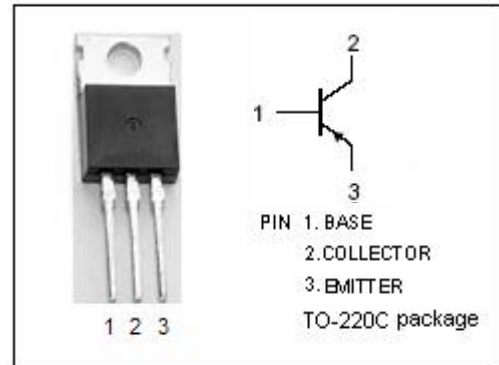


isc Silicon PNP Power Transistor
BD636
DESCRIPTION

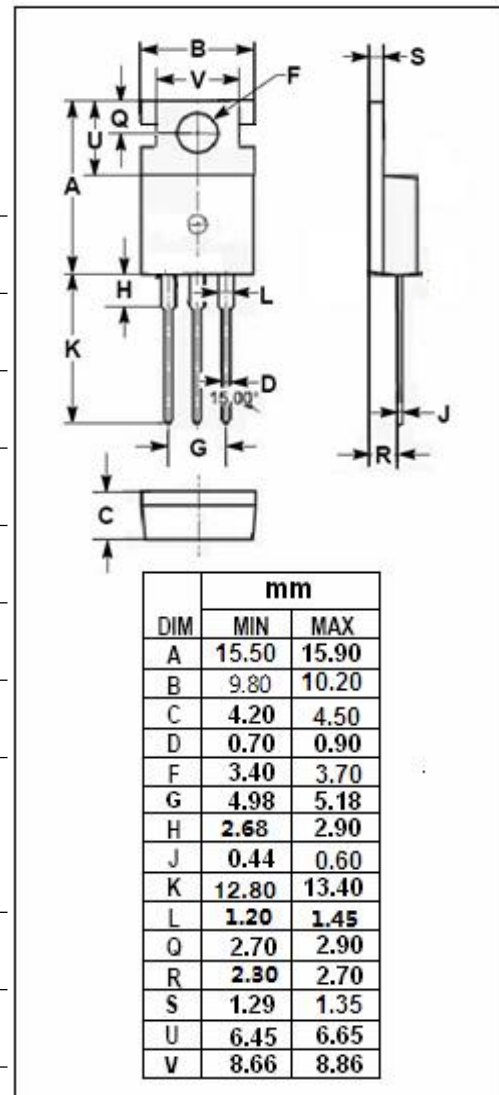
- DC Current Gain -
: $h_{FE} = 40(\text{Min.}) @ I_C = -25\text{mA}$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -60\text{V}(\text{Min.})$
- Complement to Type BD635
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for amplifier and switching applications.

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|--|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -60 | V |
| V_{CEO} | Collector-Emitter Voltage | -60 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current-Continuous | -2 | A |
| I_{CM} | Collector Current-Peak | -5 | A |
| I_B | Base Current-Continuous | -0.3 | A |
| P_C | Collector Power Dissipation @ $T_a=25^\circ\text{C}$ | 2 | W |
| | Collector Power Dissipation @ $T_c=25^\circ\text{C}$ | 30 | |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |



isc Silicon PNP Power Transistor

BD636

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|----------------------|--------------------------------------|---|-----|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -30mA; I _B = 0 | -60 | | V |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage | I _C = -0.1mA; I _E = 0 | -60 | | V |
| V _{(BR)EBO} | Emitter-Base Breakdown Voltage | I _E = -1mA; I _C = 0 | -5 | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -1A; I _B = -0.1A | | -0.6 | V |
| V _{BE(on)} | Base-Emitter On Voltage | I _C = -1A; V _{CE} = -2V | | -1.3 | V |
| I _{CES} | Collector Cutoff Current | V _{CE} = -60V; V _{BE} = 0 | | -0.2 | mA |
| h _{FE-1} | DC Current Gain | I _C = -25mA; V _{CE} = -2V | 40 | | |
| h _{FE-2} | DC Current Gain | I _C = -1A; V _{CE} = -2V | 25 | | |

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