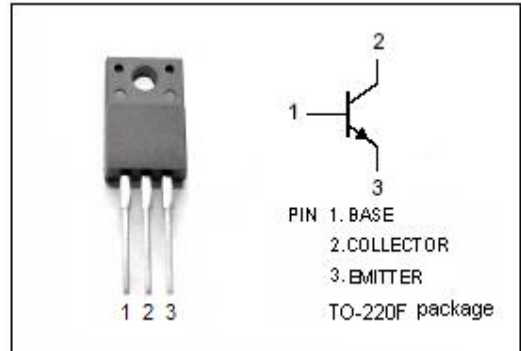


isc Silicon NPN Power Transistors
KTC4369
DESCRIPTION

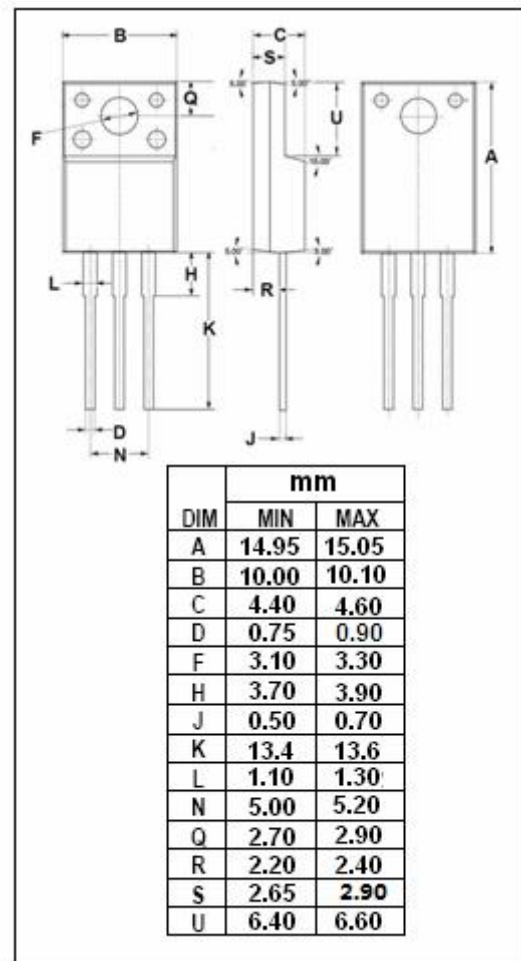
- Low Saturation Voltage-
: $V_{CE(sat)}=0.8V(\text{Max})@ (I_C= 2A, I_B= 0.2A)$
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 30V(\text{Min})$
- Complement to Type KTA1658
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for use in general purpose applications .

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------------|
| V_{CBO} | Collector-Base Voltage | 30 | V |
| V_{CEO} | Collector-Emitter Voltage | 30 | V |
| V_{EBO} | Emitter-Base Voltage | 5 | V |
| I_C | Collector Current-Continuous | 3 | A |
| I_B | Base Current | 0.3 | A |
| P_C | Collector Power Dissipation $T_C=25^\circ\text{C}$ | 15 | W |
| T_j | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |



isc Silicon NPN Power Transistors
KTC4369
ELECTRICAL CHARACTERISTICS
 $T_C=25^\circ\text{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------|--------------------------------------|--|-----|-----|-----|---------------|
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage | $I_C=10\text{mA}; I_B=0$ | 30 | | | V |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C=2\text{A}; I_B=0.2\text{A}$ | | | 0.8 | V |
| $V_{BE(on)}$ | Base-Emitter On Voltage | $I_C=0.5\text{A}; V_{CE}=2\text{V}$ | | | 1.0 | V |
| I_{CBO} | Collector Cutoff Current | $V_{CB}=20\text{V}; I_E=0$ | | | 1 | μA |
| I_{EBO} | Emitter Cutoff Current | $V_{EB}=5\text{V}; I_C=0$ | | | 1 | μA |
| h_{FE-1} | DC Current Gain | $I_C=0.5\text{A}; V_{CE}=2\text{V}$ | 70 | | 240 | |
| h_{FE-2} | DC Current Gain | $I_C=2.5\text{A}; V_{CE}=2\text{V}$ | 25 | | | |
| C_{OB} | Output Capacitance | $I_E=0; V_{CB}=10\text{V}, f_{test}=1\text{MHz}$ | | 35 | | pF |
| f_T | Current-Gain—Bandwidth Product | $I_C=0.5\text{A}; V_{CE}=2\text{V}$ | | 100 | | MHz |

◆ h_{FE-1} Classifications

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

Notice:

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