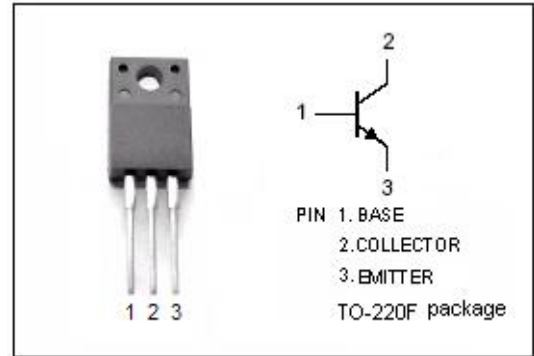


DESCRIPTION

- Low Collector Saturation Voltage
: $V_{CE(sat)} = 0.35V(\text{Max}) @ I_C = 6A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 50V (\text{Min})$
- Complement to Type 2SA1567

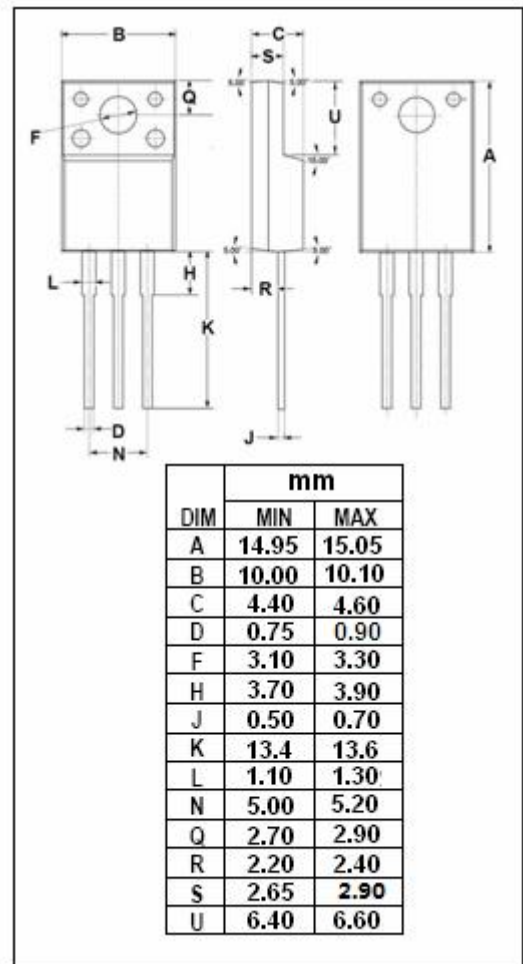
APPLICATIONS

- Designed for use in DC motor driver and general purpose applications



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|--------------------------------------------------|---------|------------|
| V_{CBO} | Collector-Base Voltage | 50 | V |
| V_{CEO} | Collector-Emitter Voltage | 50 | V |
| V_{EBO} | Emitter-Base Voltage | 6 | V |
| I_C | Collector Current-Continuous | 12 | A |
| I_B | Base Current-Continuous | 3 | A |
| P_C | Collector Power Dissipation @ $T_C = 25^\circ C$ | 35 | W |
| T_J | Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ C$ |



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 | $I_C=25\text{mA}$; $I_B=0$ | 50 | | | V |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C=6\text{A}$; $I_B=0.3\text{A}$ | | | 0.35 | V |
| I_{CBO} | Collector Cutoff Current | $V_{CB}=50\text{V}$; $I_E=0$ | | | 100 | μA |
| I_{EBO} | Emitter Cutoff Current | $V_{EB}=6\text{V}$; $I_C=0$ | | | 10 | μA |
| h_{FE} | DC Current Gain | $I_C=6\text{A}$; $V_{CE}=1\text{V}$ | 50 | | | |
| f_T | Current-Gain—Bandwidth Product | $I_E=-0.5\text{A}$; $V_{CE}=12\text{V}$ | | 40 | | MHz |
| C_{OB} | Output Capacitance | $I_E=0$; $V_{CB}=12\text{V}$; $f_{test}=1.0\text{MHz}$ | | 180 | | pF |

Switching times

| | | | | | | |
|-----------|--------------|------------------------------------------------------------------------------------------|--|-----|--|---------------|
| t_{on} | Turn-on Time | $I_C=6\text{A}$; $I_{B1}=-I_{B2}=0.12\text{A}$ $R_L=4\ \Omega$; $V_{CC}=24\text{V}$ | | 0.6 | | μs |
| t_{stg} | Storage Time | | | 1.4 | | μs |
| t_f | Fall Time | | | 0.4 | | μs |

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