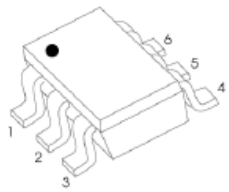
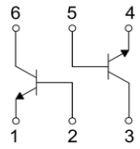
# Plastic-Encapsulate Transistors

DUAL TRANSISTOR (NPN+NPN)

**SOT-363**




**FEATURES**

- Two transistors in one package
- Reduces number of components and board space
- No mutual interference between the transistors

**MARKING: 4Ft**

**MAXIMUM RATINGS($T_a$=25℃ unless otherwise noted)**

| Symbol | Parameter | Value | Units |
|---|---|---|---|
| $V_{CBO}$ | Collector-Base Voltage | 80 | V |
| $V_{CEO}$ | Collector-Emitter Voltage | 65 | V |
| $V_{EBO}$ | Emitter-Base Voltage | 6 | V |
| $I_C$ | Collector Current –Continuous | 0.1 | A |
| $P_C$ | Collector Dissipation | 200 | mW |
| $T_J$ | Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature | -55-150 | ℃ |

**ELECTRICAL CHARACTERISTICS ( Ta=25℃ unless otherwise specified)**

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| **Collector-base breakdown voltage** | $V_{(BR)CBO}$ | $I_C$=10μA,$I_E$=0 | 80 | | | V |
| **Collector-emitter breakdown voltage** | $V_{(BR)CEO}$ | $I_C$=10mA,$I_B$=0 | 65 | | | V |
| **Emitter-base breakdown voltage** | $V_{(BR)EBO}$ | $I_E$=10μA,$I_C$=0 | 6 | | | V |
| **Collector cut-off current** | $I_{CBO}$ | $V_{CB}$=30V,$I_E$=0 | | | 15 | nA |
| **Emitter cut-off current** | $I_{EBO}$ | $I_C$=0, $V_{EB}$=5V | | | 5 | μA |
| **DC current gain** | $h_{FE}$ | $V_{CE}$=5V,$I_C$=2mA | 110 | | 600 | |
| **Collector-emitter saturation voltage** | $V_{CE(sat)(1)}$ | $I_C$=10mA,$I_B$=0.5mA | | | 0.1 | V |
| | $V_{CE(sat)(2)}$ | $I_C$=100mA,$I_B$=5mA | | | 0.3 | V |
| **Base-emitter saturation voltage** | $V_{BE(sat)}$ | $I_C$=10mA,$I_B$=0.5mA | | 0.77 | | V |
| **Transition frequency** | $f_T$ | $V_{CB}$=5V,$I_E$=10mA,f=100MHz | 100 | | | MHz |
| **Collector output capacitance** | $C_{ob}$ | $V_{CB}$=10V,$I_E$=0,f=1MHz | | | 1.5 | pF |



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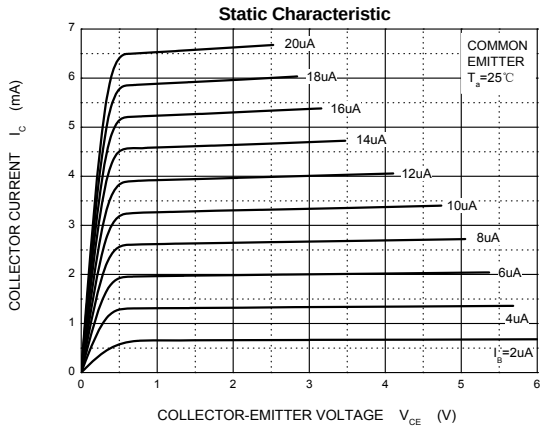


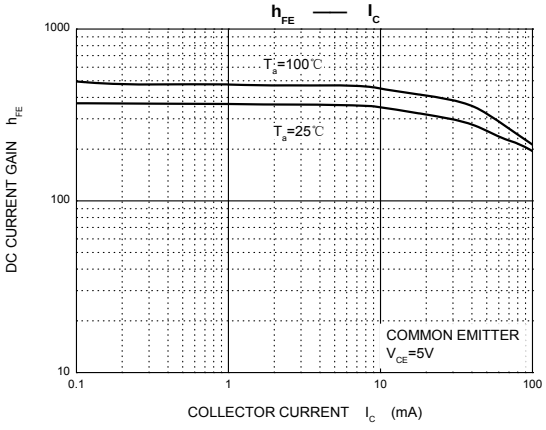


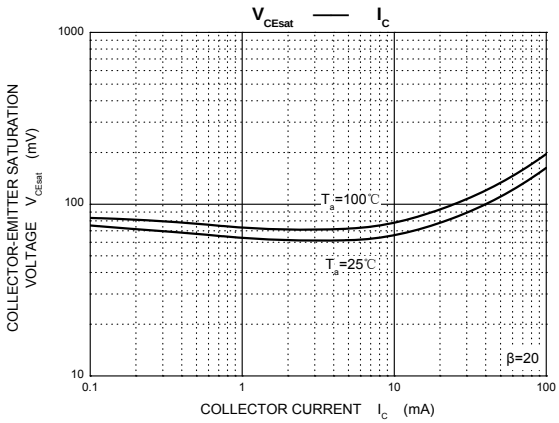


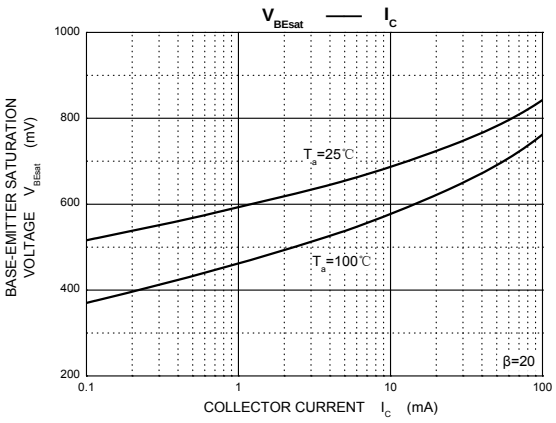


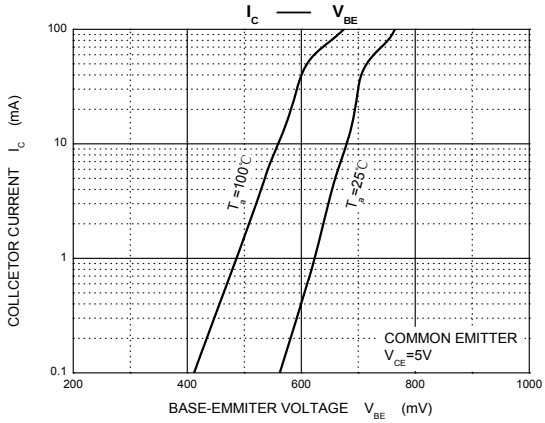


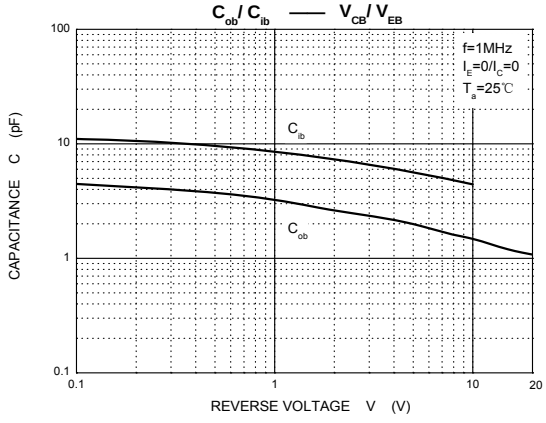


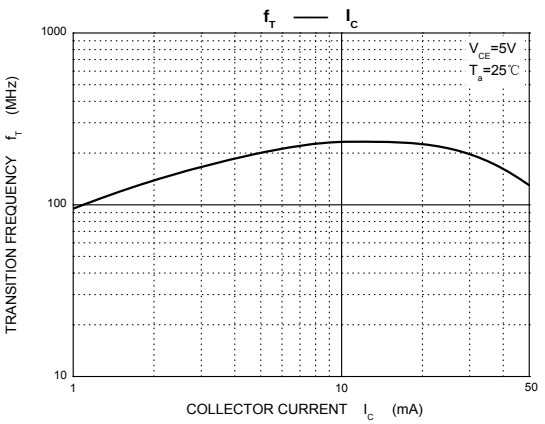


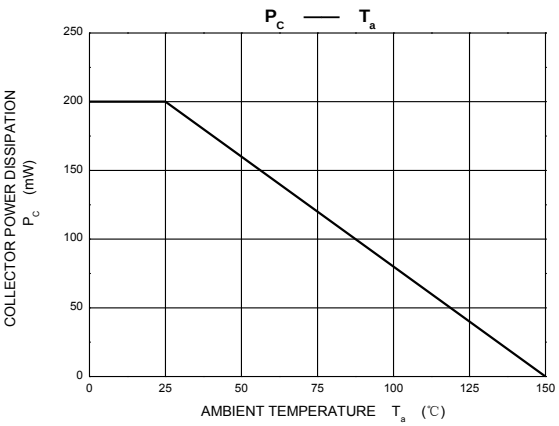




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## SOT-363-Package Outline Dimensions



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