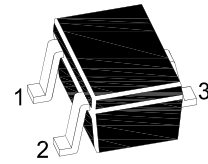


MMBTSC4627E

NPN Silicon Epitaxial Planar Transistor



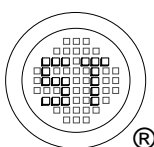
1.Base 2.Emitter 3.Collector
SOT-523 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---------------------------|-----------|---------------|------------------|
| Collector Base Voltage | V_{CBO} | 30 | V |
| Collector Emitter Voltage | V_{CEO} | 20 | V |
| Emitter Base Voltage | V_{EBO} | 3 | V |
| Collector Current | I_C | 15 | mA |
| Power Dissipation | P_{tot} | 125 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | $^\circ\text{C}$ |

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

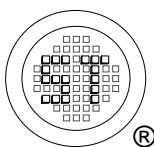
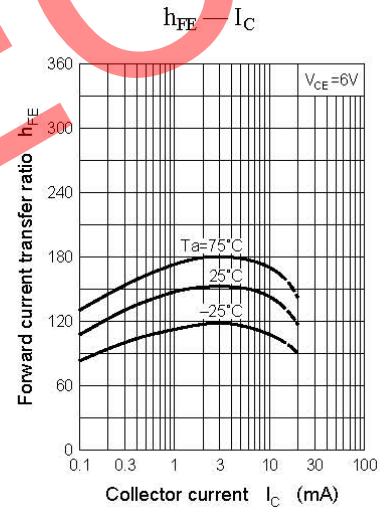
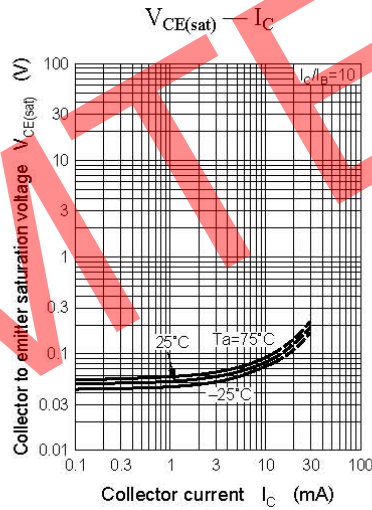
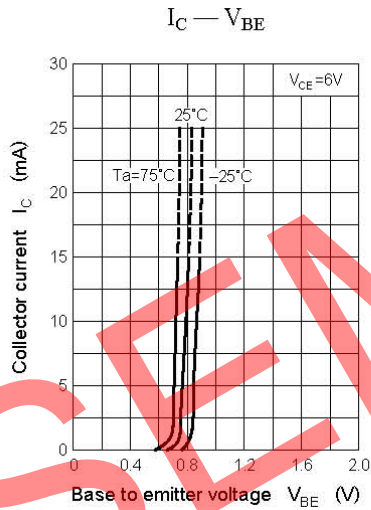
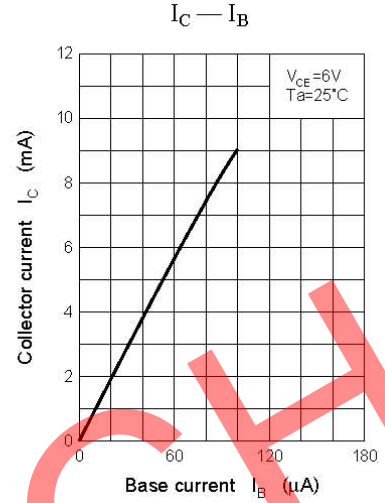
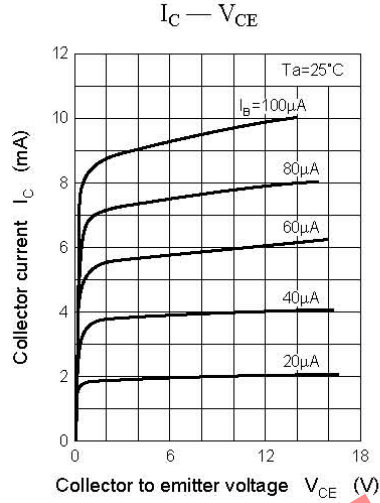
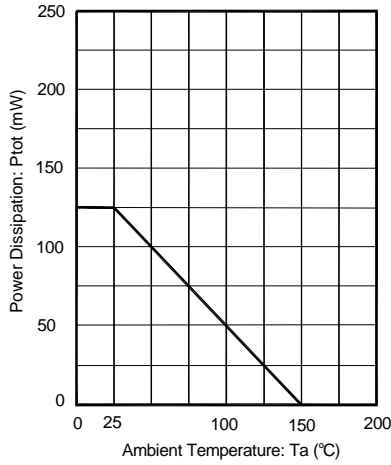
| Parameter | Symbol | Min. | Max. | Unit | |
|--|--------------------|------|------|------|---|
| DC Current Gain at $V_{CE} = 6\text{ V}$, $I_C = 1\text{ mA}$ | Current Gain Group | B | 40 | 110 | - |
| | | C | 65 | 160 | - |
| | | D | 100 | 260 | - |
| | | | | | |
| Collector Base Cutoff Current at $V_{CB} = 12\text{ V}$ | I_{CBO} | - | 50 | nA | |
| Collector Base Breakdown Voltage at $I_C = 10\text{ }\mu\text{A}$ | $V_{BR(CBO)}$ | 30 | - | V | |
| Collector Emitter Breakdown Voltage at $I_C = 1\text{ mA}$ | $V_{(BR)CEO}$ | 20 | - | V | |
| Emitter Base Breakdown Voltage at $I_E = 10\text{ }\mu\text{A}$ | $V_{BR(EBO)}$ | 3 | - | V | |
| Collector Emitter Saturation Voltage at $I_C = 10\text{ mA}$, $I_B = 1\text{ mA}$ | $V_{CE(sat)}$ | - | 0.5 | V | |
| Transition Frequency at $V_{CE} = 6\text{ V}$, $-I_C = 1\text{ mA}$, $f = 200\text{ MHz}$ | f_T | 450 | - | MHz | |
| Collector Base Capacitance at $V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$ | C_{ob} | - | 1.7 | pF | |



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