

General purpose transistors (dual transistors)

EMX26

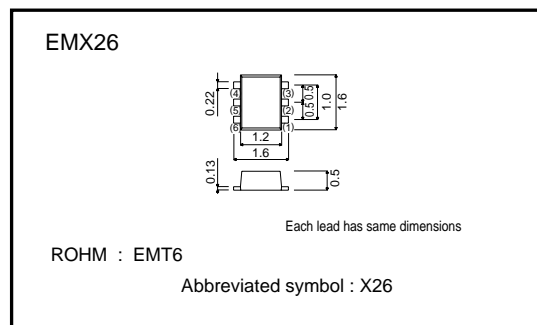
●Features

- 1) Two 2SD2654 chips in a EMT package.
- 2) Mounting possible with EMT3 automatic mounting machines.
- 3) Transistor elements are independent, eliminating interference.
- 4) Mounting cost and area can be cut in half.

●Structure

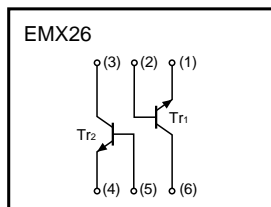
Epitaxial planar type
NPN silicon transistor

●External dimensions (Unit : mm)



The following characteristics apply to both Tr₁ and Tr₂.

●Equivalent circuit



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---------------------------|------------------|-------------|--------------|
| Collector-base voltage | V _{CB0} | 60 | V |
| Collector-emitter voltage | V _{CE0} | 50 | V |
| Emitter-base voltage | V _{EB0} | 12 | V |
| Collector current | I _c | 0.15 | A (DC) |
| | | 0.2 | A (Pulse) *1 |
| Power dissipation | P _d | 150 (TOTAL) | mW *2 |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

*1 Single pulse P_w=100ms.

*2 120mW per element must not be exceeded.

Transistors

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|----------------------|------|------|------|------|--|
| Collector-base breakdown voltage | BV _{CB0} | 60 | – | – | V | I _c =10μA |
| Collector-emitter breakdown voltage | BV _{CEO} | 50 | – | – | V | I _c =1mA |
| Emitter-base breakdown voltage | BV _{EB0} | 12 | – | – | V | I _E =10μA |
| Collector cutoff current | I _{CB0} | – | – | 0.3 | μA | V _{CB} =50V |
| Emitter cutoff current | I _{EB0} | – | – | 0.3 | μA | V _{EB} =12V |
| Collector-emitter saturation voltage | V _{CE(sat)} | – | – | 0.3 | V | I _c /I _b =50mA/5mA |
| DC current transfer ratio | h _{FE} | 820 | – | 2700 | – | V _{CE} /I _c =5V/1mA |
| Transition frequency | f _T | – | 250 | – | MHz | V _{CE} =5V, I _E =–10mA, f=100MHz |
| Output capacitance | C _{ob} | – | 3.5 | * | pF | V _{CB} =5V, I _E =0A, f=1MHz |

* Measured using pulse current.

●Packaging specifications

| Type | Package | Taping |
|-------|------------------------------|--------|
| | Code | T2R |
| | Basic ordering unit (pieces) | 8000 |
| EMX26 | | ○ |

●Electrical characteristic curves

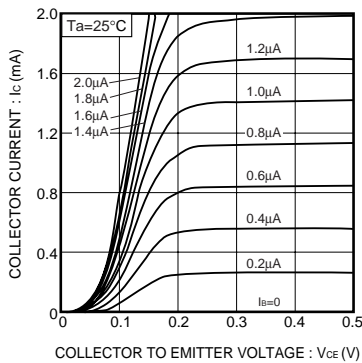


Fig.1 Grounded emitter output characteristics (I)

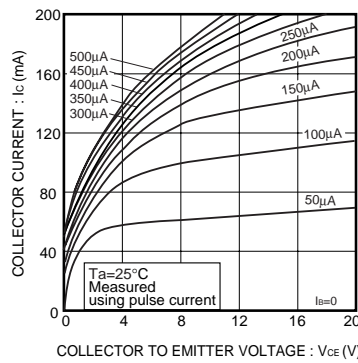


Fig.2 Grounded emitter output characteristics (II)

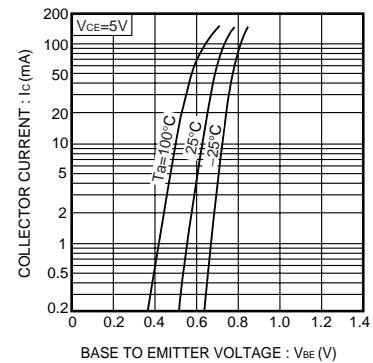


Fig.3 Grounded emitter propagation characteristics

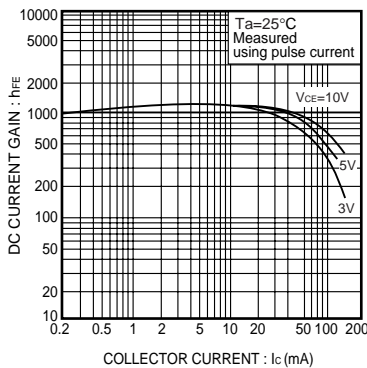


Fig.4 DC current gain vs. collector current (I)

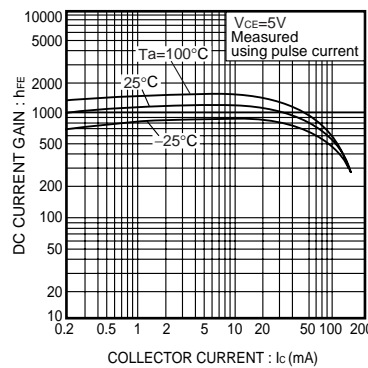


Fig.5 DC current gain vs. collector current (II)

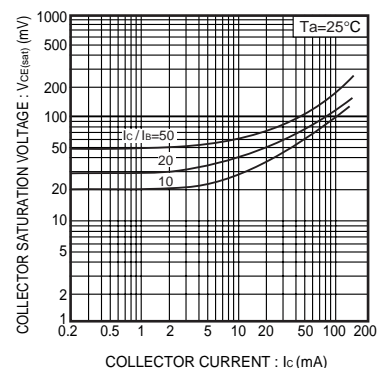


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

Transistors

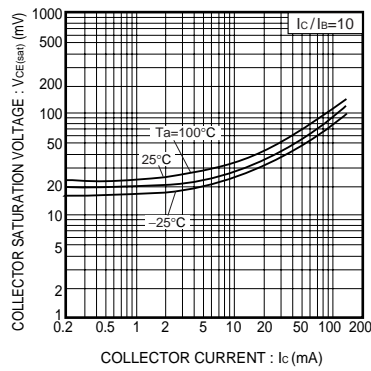


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

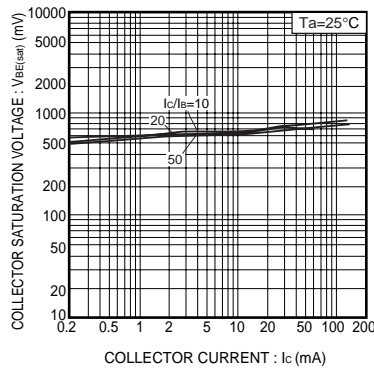


Fig.8 Base-emitter saturation voltage vs. collector current (I)

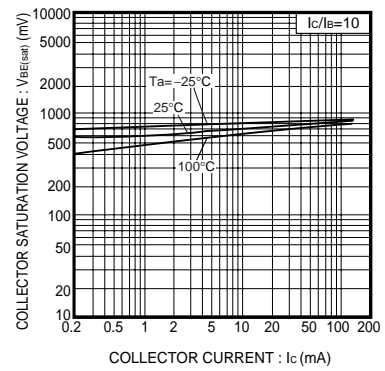


Fig.9 Base-emitter saturation voltage vs. collector current (II)

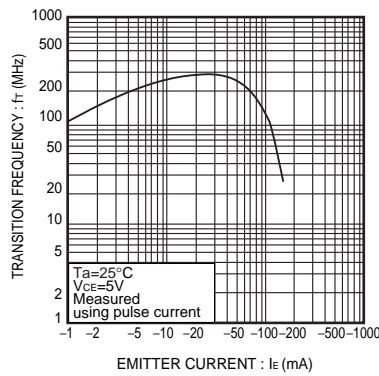


Fig.10 Gain bandwidth product vs. emitter current

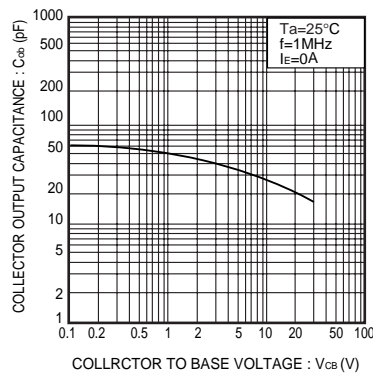


Fig.11 Collector output capacitance vs. collector-base voltage

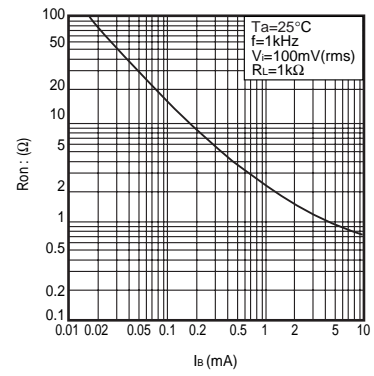


Fig.12 Output on resistance vs. base current

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