

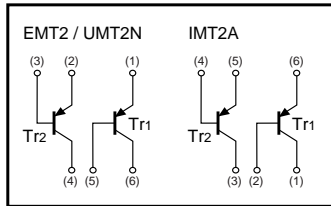
General purpose (dual transistors)

EMT2 / UMT2N / IMT2A

●Features

1) Two 2SA1037AK chips in a EMT or UMT or SMT package.

●Equivalent circuits



●Absolute maximum ratings (Ta=25°C)

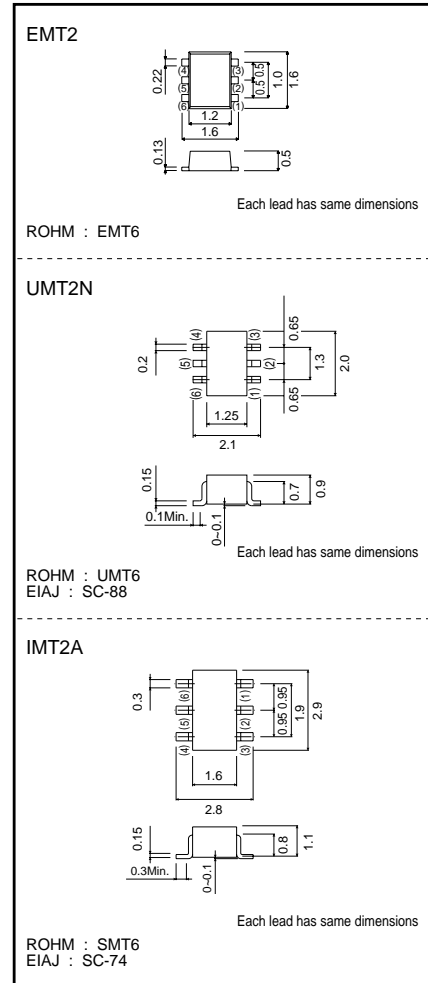
| Parameter | Symbol | Limits | Unit |
|-----------------------------|------------------|-------------|-------|
| Collector-base voltage | V _{CB0} | -60 | V |
| Collector-emitter voltage | V _{CE0} | -50 | V |
| Emitter-base voltage | V _{EB0} | -6 | V |
| Collector current | I _c | -150 | mA |
| Collector power dissipation | EMT2 / UMT2N | 150(TOTAL) | mW *1 |
| | IMT2A | 300(TOTAL) | |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

*1 120mW per element must not be exceeded.
*2 200mW per element must not be exceeded.

●Package, marking, and packaging specifications

| Type | EMT2 | UMT2N | IMT2A |
|------------------------------|------|-------|-------|
| Package | EMT6 | UMT6 | SMT6 |
| Marking | T2 | T2 | T2 |
| Code | T2R | TR | T108 |
| Basic ordering unit (pieces) | 8000 | 3000 | 3000 |

●External dimensions (Unit : mm)



●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|----------------------|------|------|------|------|--|
| Collector-base breakdown voltage | BV _{CB0} | -60 | - | - | V | I _c =-50μA |
| Collector-emitter breakdown voltage | BV _{CE0} | -50 | - | - | V | I _c =-1mA |
| Emitter-base breakdown voltage | BV _{EB0} | -6 | - | - | V | I _e =-50μA |
| Collector cutoff current | I _{cBO} | - | - | -0.1 | μA | V _{CB} =-60V |
| Emitter cutoff current | I _{eBO} | - | - | -0.1 | μA | V _{EB} =-6V |
| Collector-emitter saturation voltage | V _{CE(sat)} | - | - | -0.5 | V | I _c /I _e =-50mA/-5mA |
| DC current transfer ratio | h _{FE} | 120 | - | 560 | - | V _{CE} =-6V, I _c =-1mA |
| Transition frequency | f _t | - | 140 | - | MHz | V _{CE} =-12V, I _e =2mA, f=100MHz * |
| Output capacitance | C _{ob} | - | 4 | 5 | pF | V _{CE} =-12V, I _e =0A, f=1MHz |

*Transition frequency of the device.

Transistors

●Electrical characteristics curves

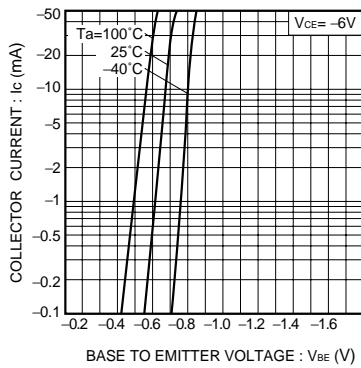


Fig.1 Grounded emitter propagation characteristics

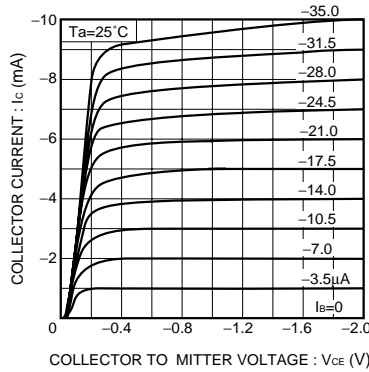


Fig.2 Grounded emitter output characteristics (I)

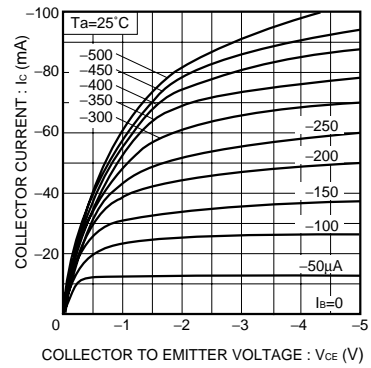


Fig.3 Grounded emitter output characteristics (II)

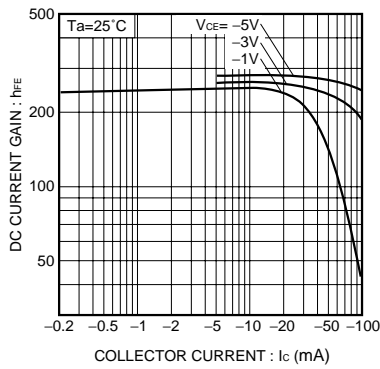


Fig.4 DC current gain vs. collector current (I)

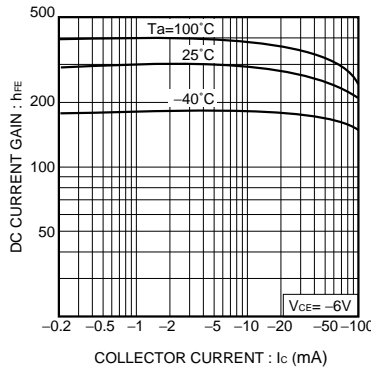


Fig.5 DC current gain vs. collector current (II)

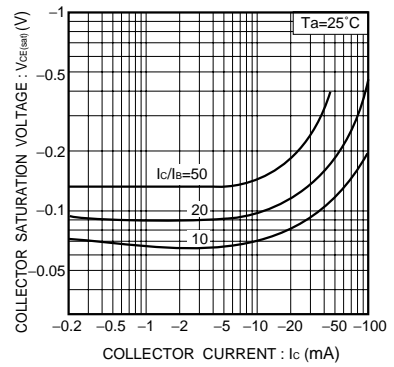


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

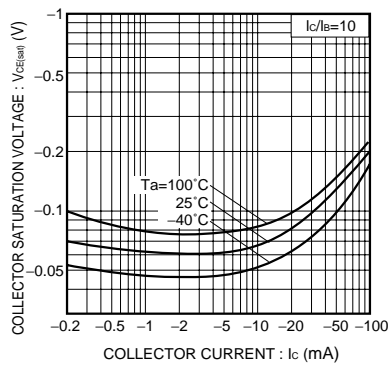


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

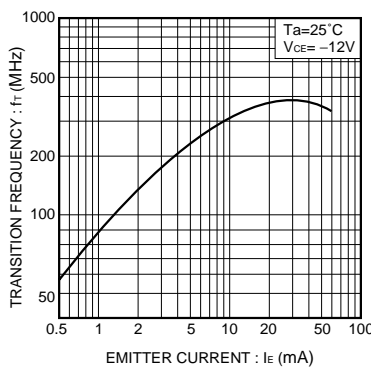


Fig.8 Gain bandwidth product vs. emitter current

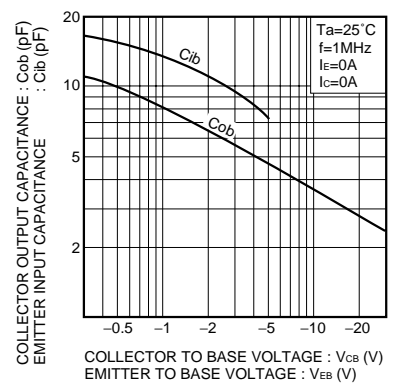


Fig.9 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

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