

Transistors

General purpose (dual transistors)

FMS3 / FMS4 / IMT4

●Features

- 1) Two 2SA1514K chips in an AMT package.
- 2) High breakdown voltage.

●Absolute maximum ratings (Ta=25°C)

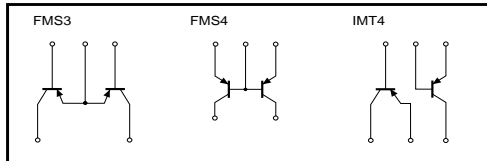
| Parameter | Symbol | Limits | Unit |
|---------------------------|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | -120 | V |
| Collector-emitter voltage | V _{CE0} | -120 | V |
| Emitter-base voltage | V _{EB0} | -5 | V |
| Collector current | I _c | -50 | mA |
| Power dissipation | P _c | 300 (TOTAL) | mW * |
| Junction temperature | T _J | 150 | °C |
| Storage temperature | T _{stg} | -55→150 | °C |

*200mW per element must not be exceeded.

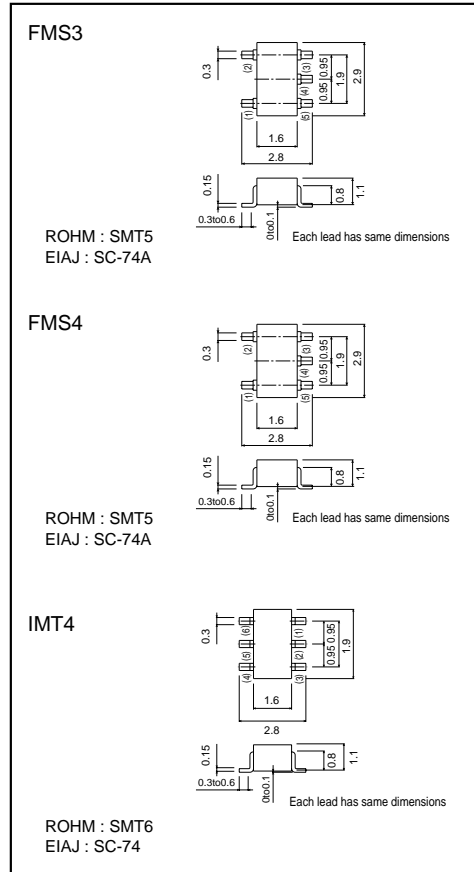
●Package, marking, and Packaging specifications

| Part No. | FMS3 | FMS4 | IMT4 |
|------------------------------|------|------|------|
| Package | SMT5 | SMT5 | SMT6 |
| Marking | S3 | S4 | T4 |
| Code | T148 | T148 | T108 |
| Basic ordering unit (pieces) | 3000 | 3000 | 3000 |

●Circuit diagram



●External dimensions (Units : mm)



●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|----------------------|------|------|------|------|--|
| Collector-base breakdown voltage | BV _{CB0} | -120 | - | - | V | I _c =-50μA |
| Collector-emitter breakdown voltage | BV _{CE0} | -120 | - | - | V | I _c =-1mA |
| Emitter-base breakdown voltage | BV _{EB0} | -5 | - | - | V | I _E =-50μA |
| Collector cutoff current | I _{cbo} | - | - | -0.5 | μA | V _{CB} =-100V |
| Emitter cutoff current | I _{EBO} | - | - | -0.5 | μA | V _{EB} =-4V |
| DC current transfer ratio | h _{FE} | 180 | - | 820 | - | V _{CE} =-6V, I _c =-2mA |
| Transition frequency | f _r | - | 140 | - | MHz | V _{CE} =-12V, I _E =2mA, f=100MHz * |
| Collector-emitter saturation voltage | V _{CE(sat)} | - | - | -0.5 | V | I _c /I _E =-10mA/-1mA |

*Transition frequency of the device.

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