

SMD Type

Transistors

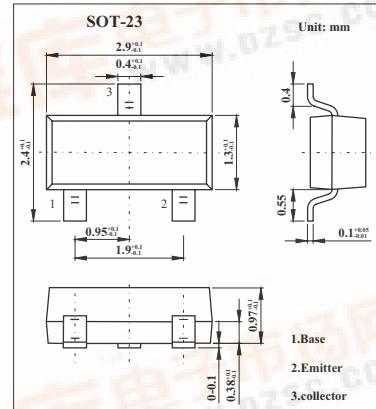
Medium Power Transistor

FMMT491



■ Features

- Low equivalent on-resistance.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|-----------------------------------------|-----------------------------------|-------------|------|
| Collector-base voltage | V _{CBO} | 80 | V |
| Collector-emitter voltage | V _{CEO} | 60 | V |
| Emitter-base voltage | V _{EBO} | 5 | V |
| Peak collector current | I _{CM} | 2 | A |
| Collector current | I _C | 1 | A |
| Power dissipation | P _{tot} | 500 | mW |
| Operating and storage temperature range | T _j , T _{stg} | -55 to +150 | °C |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|-----------------------------------------|----------------------|------------------------------------------------------------------------------------------|-----|-----|--------------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =100μA | 80 | | | V |
| Collector-emitter breakdown voltage * | V _{(BR)CEO} | I _C =10mA | 60 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =100μA | 5 | | | V |
| Collector cutoff current | I _{CBO} | V _{CB} =60V | | | 100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =4V | | | 100 | nA |
| Collector-emitter saturation voltage * | V _{CE(sat)} | I _C =500mA, I _B =50mA I _C =1A, I _B =100mA | | | 0.25 0.50 | V |
| Base-emitter saturation voltage * | V _{BE(sat)} | I _C =1A, I _B =100mA | | | 1.1 | V |
| Base-emitter voltage * | V _{BE(ON)} | I _C =1A, V _{CE} =5V | | | 1.0 | V |
| Static Forward Current Transfer Ratio * | h _{FE} | I _C =1mA, V _{CE} =5V | 100 | | | |
| | | I _C =500mA, V _{CE} =5V | 100 | | 300 | |
| | | I _C =1A, V _{CE} =5V | 80 | | | |
| | | I _C =2A, V _{CE} =5V | 30 | | | |
| Current-gain-bandwidth product | f _T | I _C =50mA, V _{CE} =10V, f=100MHz | 150 | | | MHz |
| Output capacitance | C _{obo} | V _{CB} =10V, f=1MHz | | | 10 | pF |

* Pulse test: tp ≤ 300 μs; d ≤ 0.02.

■ Marking

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| Marking | 491 |
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