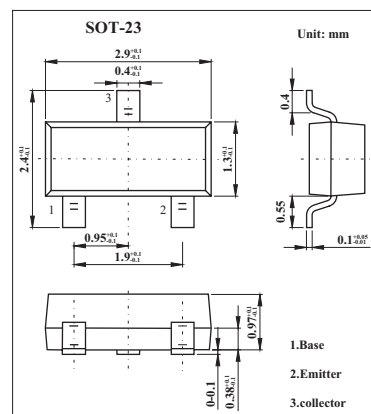


## Small Signal Transistor

## FMMT2484

## ■ Features

- 60 Volt  $V_{CEO}$ .

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

| Parameter                               | Symbol         | Rating      | Unit             |
|-----------------------------------------|----------------|-------------|------------------|
| Collector-base voltage                  | $V_{CBO}$      | 60          | V                |
| Collector-emitter voltage               | $V_{CEO}$      | 60          | V                |
| Emitter-base voltage                    | $V_{EBO}$      | 6           | V                |
| Peak collector current                  | $I_{CM}$       | 200         | mA               |
| Collector current                       | $I_C$          | 50          | mA               |
| Power dissipation                       | $P_{tot}$      | 330         | mW               |
| Operating and storage temperature range | $T_j, T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

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

| Parameter                              | Symbol        | Testconditions                                                                                                         | Min | Typ | Max  | Unit          |
|----------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------|-----|-----|------|---------------|
| Collector-base breakdown voltage       | $V_{(BR)CBO}$ | $I_C=10\mu\text{A}, I_E=0$                                                                                             | 60  |     |      | V             |
| Collector-emitter breakdown voltage    | $V_{(BR)CEO}$ | $I_C=10\text{mA}, I_B=0$                                                                                               | 60  |     |      | V             |
| Emitter-base breakdown voltage         | $V_{(BR)EBO}$ | $I_E=10\mu\text{A}, I_C=0$                                                                                             | 6   |     |      | V             |
| Collector cutoff current               | $I_{CBO}$     | $V_{CB}=45\text{V}, I_E=0$                                                                                             |     |     | 10   | nA            |
|                                        |               | $V_{CB}=45\text{V}, T_{amb}=150^\circ\text{C}$                                                                         |     |     | 10   | $\mu\text{A}$ |
| Emitter cut-off current                | $I_{EBO}$     | $V_{EB}=5\text{V}, I_C=0$                                                                                              |     |     | 10   | nA            |
| Collector-emitter saturation voltage * | $V_{CE(sat)}$ | $I_C=1\text{A}, I_B=100\mu\text{A}$                                                                                    |     |     | 0.35 | V             |
| Base-emitter voltage *                 | $V_{BE}$      | $I_C=1\text{A}, V_{CE}=5\text{V}$                                                                                      |     |     | 0.95 | V             |
| DC current gain *                      | $h_{FE}$      | $I_C=10\mu\text{A}, V_{CE}=5\text{V}$                                                                                  | 100 |     | 500  |               |
| Output capacitance                     | $C_{obo}$     | $V_{CB}=5\text{V}, f=140\text{KHz}$                                                                                    |     |     | 6    | pF            |
| Input capacitance                      | $C_{ibo}$     | $V_{BE}=0.5\text{V}, f=140\text{KHz}$                                                                                  |     |     | 6    | pF            |
| Output capacitance                     | NF            | $I_C=200\mu\text{A}, V_{CE}=5\text{V}, R_g=2\text{k}\Omega$<br>$f=1\text{kHz}, f=200\text{Hz}$                         |     |     | 3    | dB            |
|                                        |               | $I_C=200\mu\text{A}, V_{CE}=5\text{V}, R_g=2\text{k}\Omega$<br>$f=30\text{Hz to } 15\text{kHz at } -3\text{dB points}$ |     |     | 3    | dB            |

\* Pulse test:  $t_p \leq 300\mu\text{s}; d \leq 0.02$ .

## ■ Marking

|         |    |
|---------|----|
| Marking | 4G |
|---------|----|