

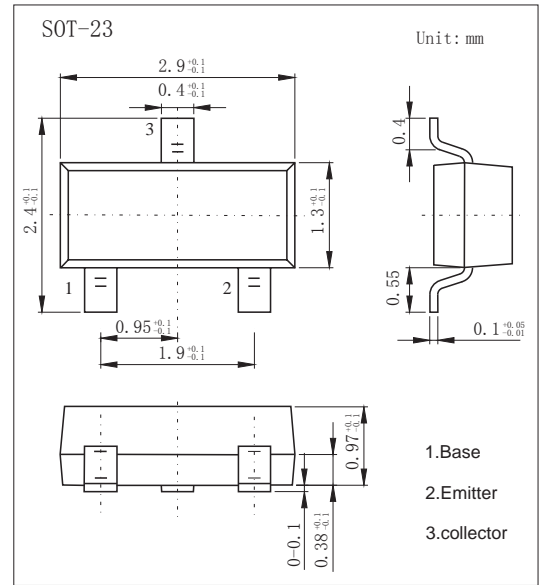
SOT-23 Plastic-Encapsulate Transistors

Features

- Collector Current Capability $I_C=2A$
- Collector Emitter Voltage $V_{CE0}=50V$
- Complementary to FMMT720
- NPN Transistors

MECHANICAL DATA

- Case style:SOT-23molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------|------------|------|
| Collector - Base Voltage | V_{CBO} | 50 | V |
| Collector - Emitter Voltage | V_{CEO} | 50 | |
| Emitter - Base Voltage | V_{EBO} | 5 | |
| Collector Current - Continuous | I_C | 2 | A |
| Collector Current - Pulse | I_{CP} | 6 | |
| Base Current | I_B | 0.5 | |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 to 150 | |

PACKAGE INFORMATION

| Device | Package | Shipping |
|---------|---------|----------------|
| FMMT619 | SOT-23 | 3000/Tape&Reel |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|----------------------------------|-----|-----|-----|------|
| Collector- base breakdown voltage | V_{CBO} | $I_C=100\mu A, I_E=0$ | 50 | | | V |
| Collector- emitter breakdown voltage | V_{CEO} | $I_C=10mA, I_B=0$ | 50 | | | |
| Emitter - base breakdown voltage | V_{EBO} | $I_E=100\mu A, I_C=0$ | 5 | | | |
| Collector-base cut-off current | I_{CBO} | $V_{CB}=40V, I_E=0$ | | | 100 | nA |
| Collector- emitter cut-off current | I_{CES} | $V_{CE}=40V, I_E=0$ | | | 100 | |
| Emitter cut-off current | I_{EBO} | $V_{EB}=4V, I_C=0$ | | | 100 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$ | | | 20 | mV |
| | | $I_C=1A, I_B=10mA$ | | | 200 | |
| | | $I_C=2A, I_B=50mA$ | | | 220 | |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_C=2A, I_B=50mA$ | | | 1 | V |
| Base-emitter turn-on voltage | $V_{BE(on)}$ | $V_{CE}=2V, I_C=2A$ | | | 1 | |
| DC current gain | h_{FE} | $V_{CE}=2V, I_C=10mA$ | 200 | | | |
| | | $V_{CE}=2V, I_C=200mA$ | 300 | | | |
| | | $V_{CE}=2V, I_C=1A$ | 200 | | | |
| | | $V_{CE}=2V, I_C=2A$ | 100 | | | |
| | | $V_{CE}=2V, I_C=6A$ | | 40 | | |
| Turn-on time | t_{on} | $V_{CC}=10V, I_C=1A$ | | 170 | | ns |
| Turn-off time | t_{off} | $I_{B1}=-I_{B2}=10mA$ | | 750 | | |
| Collector output capacitance | C_{ob} | $V_{CB}=10V, f=1MHz$ | | | 20 | pF |
| Transition frequency | f_T | $V_{CE}=10V, I_C=50mA, f=100MHz$ | 100 | | | MHz |

Marking

| | |
|---------|-----|
| Marking | 619 |
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RATINGS AND CHARACTERISTIC CURVES

■ Typical Characteristics

