

Outline example

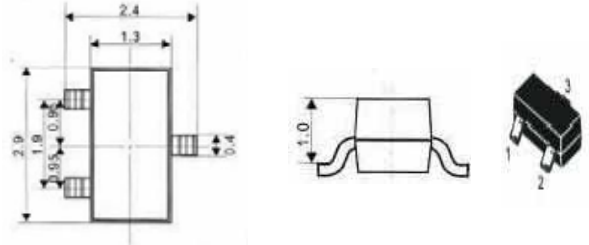
Silicon PNP SMD triode

1: base 2: emitter 3: collector
encapsulation mode: SOT-23

P/N suffix V means AEC-Q101 qualified, e.g:MMBT5401V

P/N suffix V means Halogen-free

High voltage switching transistor



| | | |
|---------|---------|---------|
| Rank | L | H |
| Range | 100-200 | 200-300 |
| Marking | 2L | |

Maximum ratings(Ta=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|-------------------------------------|--------|---------|------|
| Collector-Base Breakdown Voltage | VCBO | -160 | V |
| Collector-Emitter Breakdown Voltage | VCEO | -150 | V |
| Emitter-Base Breakdown Voltage | VEBO | -5 | V |
| Collector Current | IC | -600 | mA |
| Collector Power Dissipation | Pc | 300 | mW |
| Junction Temperature | TJ | -65~150 | °C |
| Storage Temperature | Tstg | -65~150 | °C |

Electrical Characteristics (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Test Condition | Min | Max | Unit |
|--------------------------------------|----------|-----------------------------|------|------|------|
| Collector-Base Breakdown Voltage | VCBO | IC=-100uA IE=0 | -160 | | V |
| Collector-Emitter Breakdown Voltage | VCEO | IC=-1mA IB=0 | -150 | | V |
| Emitter-Base Breakdown Voltage | VEBO | IE=-100uA IC=0 | -5 | | V |
| Collector Cutoff Current | ICBO | VCB=-120V IE=0 | | -0.1 | nA |
| Emitter Cutoff Current | IEBO | VCE=-4V IB=0 | | -0.1 | nA |
| DC Current Gain | HFE(1) | VCE=-5V IC=-1mA | 80 | | |
| | HFE(2) | VCE=-5V IC=-10mA | 100 | 300 | |
| | HFE(3) | VCE=-5V IC=-50mA | 50 | | |
| Collector-Emitter Saturation Voltage | VCE(sat) | IC=-10mA IB=-1mA | | -0.2 | V |
| | | IC=-50mA IB=-5mA | | -0.5 | V |
| Collector-Base Saturation Voltage | VBE(sat) | IC=-10mA IB=-1mA | | -1 | V |
| | | IC=-50mA IB=-5mA | | -1 | V |
| transition frequency | fr | VCE=-5V IC=-10mA f=30MHz | 100 | | MHz |

PACKAGING OF DIODE

REEL PACK

| PACKAGE | PACKING CODE | REEL (EA) | COMPONENT SPACE(mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|------------|--------------|-------------|---------------------|-----------------|---------------|------------------|---------------|------------------|
| SOT-23/-3L | -T | 3,000 | --- | --- | 178 | 440*440*240 | 180,000 | 8.0 |

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