

EVVOSEMI[®]

THINK CHANGE DO



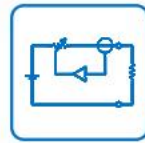
ESD



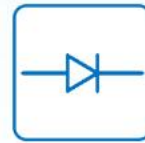
TVS



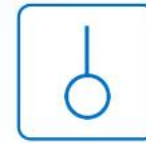
MOS



LDO



Diode



Sensor



DC-DC

Product Specification

| | | |
|--------------|-------------|--------|
| ▶ Domestic | Part Number | MJD127 |
| ▶ Overseas | Part Number | MJD127 |
| ▶ Equivalent | Part Number | MJD127 |

EV is the abbreviation of name EVVO

PNP Plastic-Encapsulate Transistors

Features

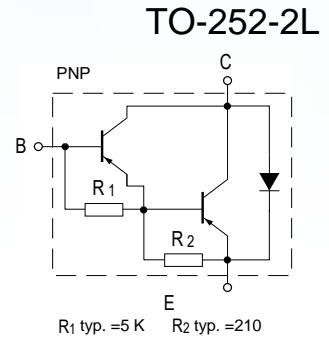
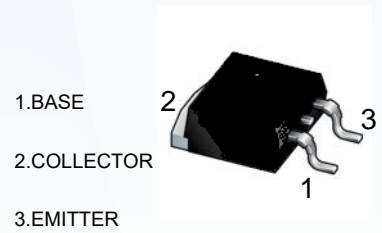
- High DC Current Gain
- Electrically Similar to Popular TIP127
- Built-in a Damper Diode at E-C

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|-----------|---------|----------|
| MJD127 | TO-252-2L | MJD127 | 2500 |

Maxmim Ratings (Ta=25 unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------------------------|--------------------------------------------------|---------|------|
| V _{CBO} | Collector-Base Voltage | -100 | V |
| V _{CEO} | Collector-Emitter Voltage | -100 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current -Continuous | -8 | A |
| P _C | Collector Power Dissipation | 1.5 | W |
| T _J , T _{stg} | Operation Junction and Storage Temperature Range | -55-150 | °C |



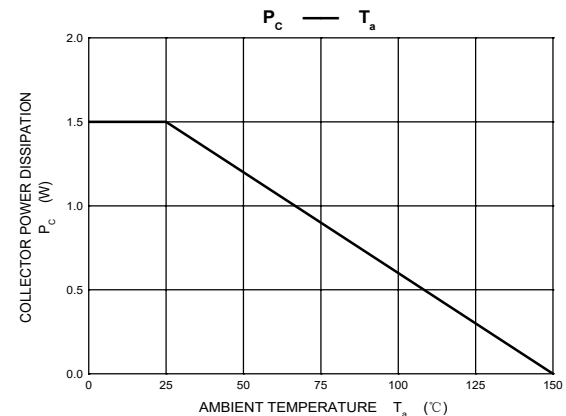
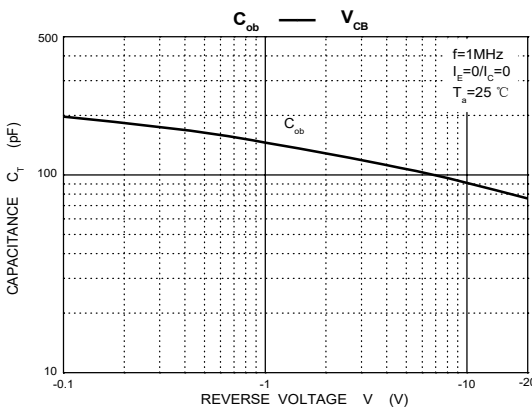
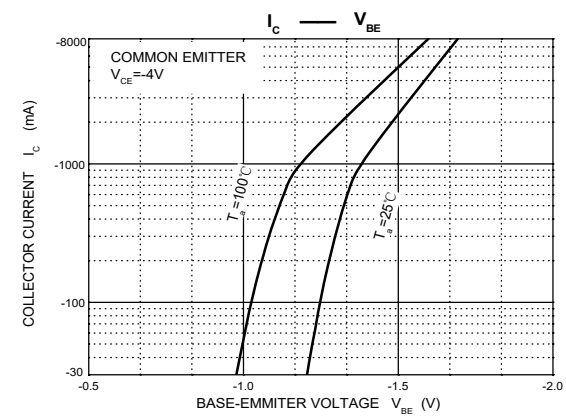
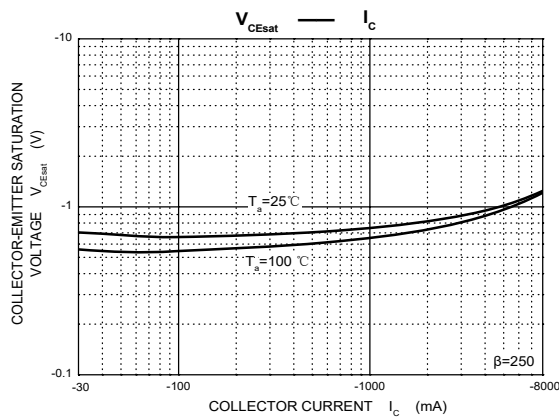
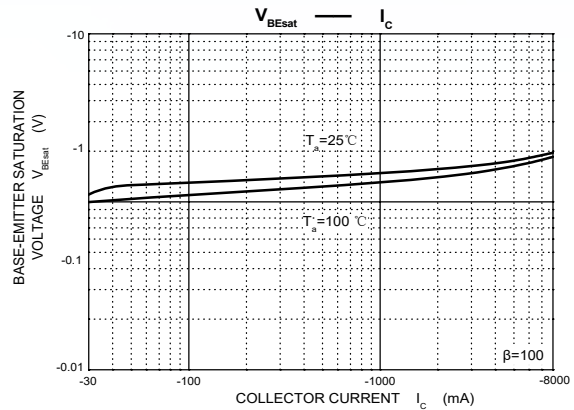
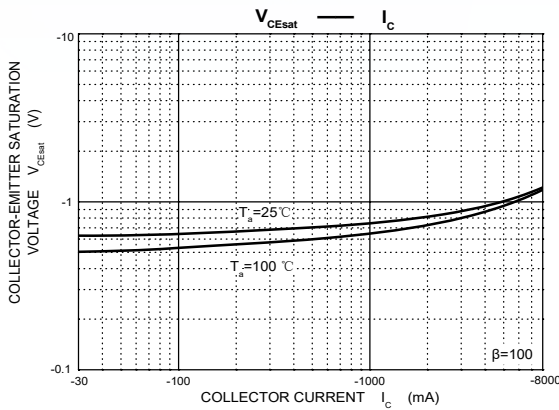
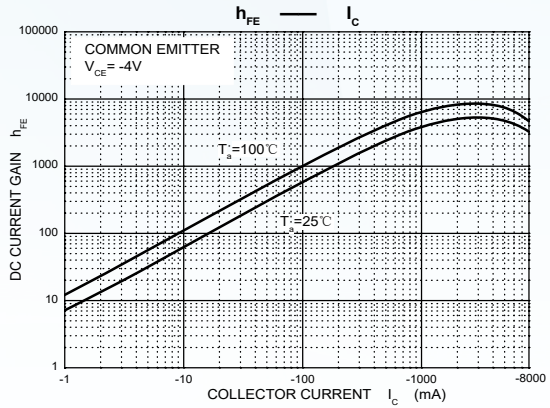
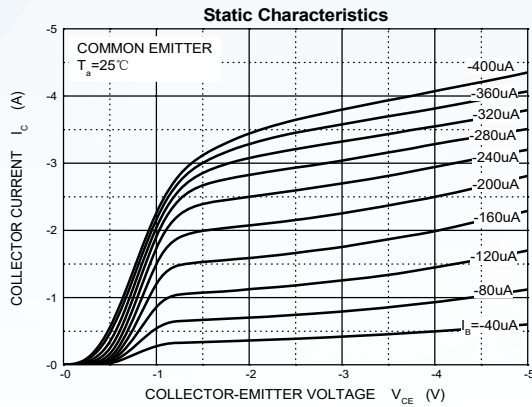
Electrcal Charcteristics (Ta=25 unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|-------------------------|----------------------------------------------------|------|-----|-------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-1mA, I _E =0 | -100 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-30mA, I _B =0 | -100 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-10mA, I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-100V, I _E =0 | | | -10 | μA |
| Collector-emitter cut-off current | I _{CEO} | V _{CE} =-50V, I _B =0 | | | -10 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V, I _C =0 | | | -2 | mA |
| DC current gain | h _{FE(1)} | V _{CE} =-4V, I _C =-4A | 1000 | | 12000 | |
| | h _{FE(2)} | V _{CE} =-4V, I _C =-8A | 100 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)1} * | I _C =-4A, I _B =-16mA | | | -2 | V |
| | V _{CE(sat)2} * | I _C =-8A, I _B =-80mA | | | -4 | V |
| Base-emitter saturation voltage | V _{BE(sat)} * | I _C =-8A, I _B =-80mA | | | -4.5 | V |
| Base-emitter voltage | V _{BE} * | V _{CE} =-4V, I _C =-4A | | | -2.8 | V |
| Collector output capacitance | C _{ob} | V _{CB} =-10V, I _E =0, f=0.1MHz | | | 300 | pF |

*Pulse Test: Pulse Width≤380μs, Duty Cycles≤2%

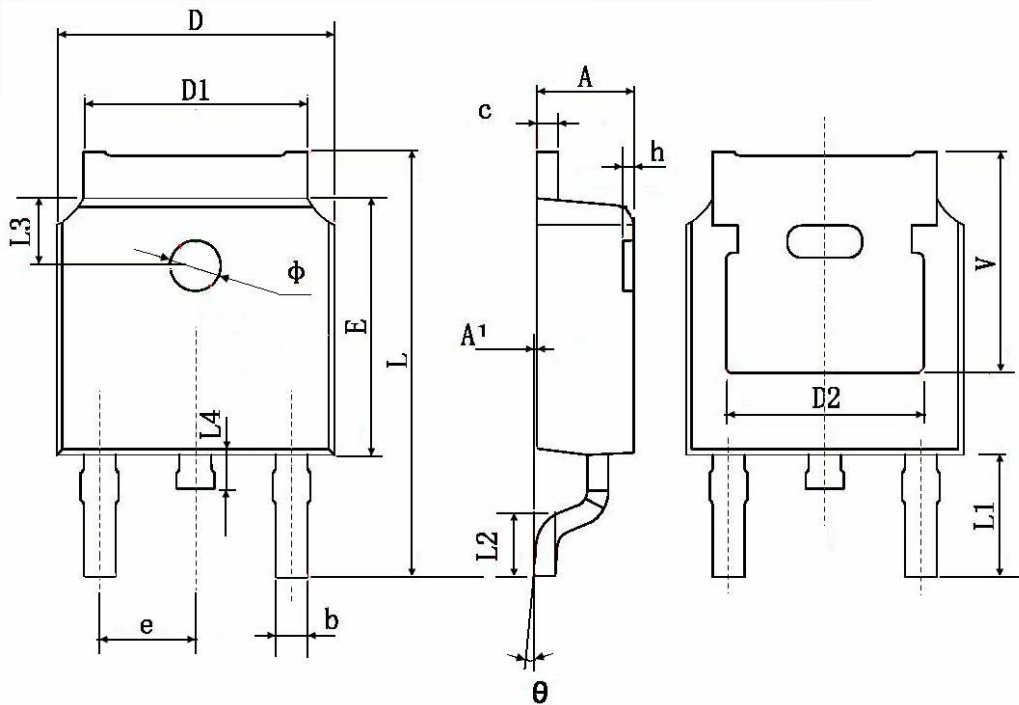
PNP Plastic-Encapsulate Transistors

Typical Characteristics



PNP Plastic-Encapsulate Transistors

TO-252-2L Package Information



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|--------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 2.200 | 2.400 | 0.087 | 0.094 |
| A1 | 0.000 | 0.127 | 0.000 | 0.005 |
| b | 0.660 | 0.860 | 0.026 | 0.034 |
| c | 0.460 | 0.580 | 0.018 | 0.023 |
| D | 6.500 | 6.700 | 0.256 | 0.264 |
| D1 | 5.100 | 5.460 | 0.201 | 0.215 |
| D2 | 0.483 TYP. | | 0.190 TYP. | |
| E | 6.000 | 6.200 | 0.236 | 0.244 |
| e | 2.186 | 2.386 | 0.086 | 0.094 |
| L | 9.800 | 10.400 | 0.386 | 0.409 |
| L1 | 2.900 TYP. | | 0.114 TYP. | |
| L2 | 1.400 | 1.700 | 0.055 | 0.067 |
| L3 | 1.600 TYP. | | 0.063 TYP. | |
| L4 | 0.600 | 1.000 | 0.024 | 0.039 |
| φ | 1.100 | 1.300 | 0.043 | 0.051 |
| θ | 0° | 8° | 0° | 8° |
| h | 0.000 | 0.300 | 0.000 | 0.012 |
| V | 5.350 TYP. | | 0.211 TYP. | |

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