imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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FAIRCHILD

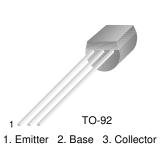
SEMICONDUCTOR®

2N6519

High Voltage Transistor

- Collector-Emitter Voltage: V_{CEO}= -300V
 Collector Dissipation: P_C (max)=625mW

PNP Epitaxial Silicon Transistor



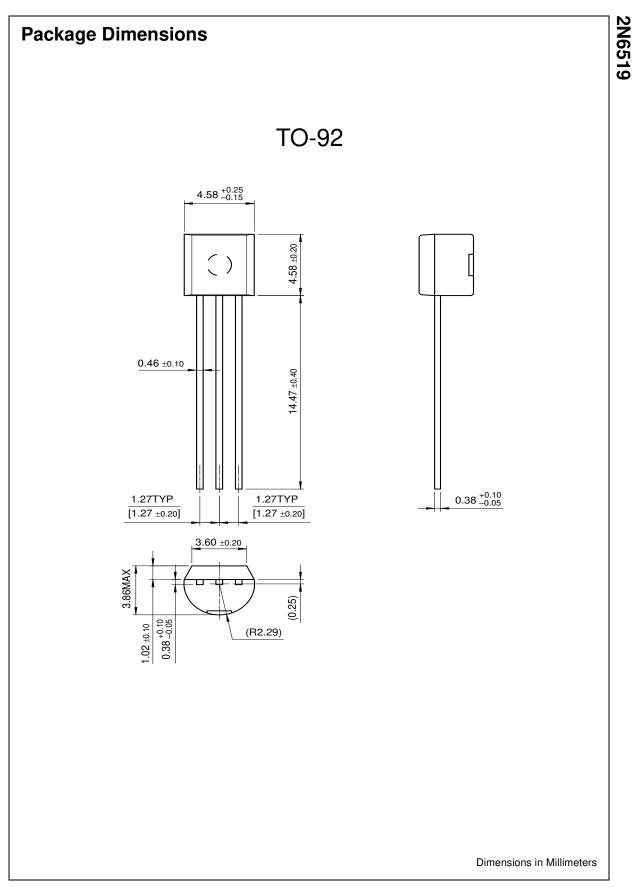
2N6519

Absolute Maximum Ratings T_a=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|------------------|-----------------------------|-----------|-------|
| V _{CBO} | Collector-Base Voltage | -300 | V |
| V _{CEO} | Collector-Emitter Voltage | -300 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| с | Collector Current | -500 | mA |
| в | Base Current | -250 | mA |
| °c | Collector Power Dissipation | 625 | W |
| | Derate above 25°C | 5 | mW/°C |
| ТJ | Junction Temperature | 150 | °C |
| Г _{STG} | Storage Temperature | -55 ~ 150 | °C |

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Max. | Units |
|-----------------------|---------------------------------------|---|------|-------|-------|
| ΒV _{CBO} | Collector-Base Breakdown Voltage | I _C = -100μΑ, I _E =0 | -300 | | V |
| ΒV _{CEO} | * Collector-Emitter Breakdown Voltage | I _C = -1mA, I _B =0 | -300 | | V |
| BV _{EBO} | Emitter-Base Breakdown Voltage | I _E = -10μA, I _C =0 | -5 | | V |
| СВО | Collector Cut-off Current | V _{CB} = -200V, I _E =0 | | -50 | nA |
| EBO | Emitter Cut-off Current | V _{EB} = -4V, I _C =0 | | -50 | nA |
| h _{FE} | * DC Current Gain | V _{CE} = -10V, I _C = -1mA | 30 | | |
| | | V _{CE} = -10V, I _C = -10mA | 45 | | |
| | | V _{CE} = -10V, I _C = -30mA | 45 | 270 | |
| | | V _{CE} = -10V, I _C = -50mA | 40 | 200 | |
| | | V _{CE} = -10V, I _C = -100mA | 20 | | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I _C = -10mA, I _B = -1mA | | -0.30 | V |
| | | I _C = -20mA, I _B = -2mA | | -0.35 | V |
| | | I _C = -30mA, I _B = -3mA | | -0.50 | V |
| | | I _C = -50mA, I _B = -5mA | | -1 | V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | I _C = -10mA, I _B = -1mA | | -0.75 | V |
| | | I _C = -20mA, I _B = -2mA | | -0.85 | V |
| | | I _C = -30mA, I _B = -3mA | | -0.90 | V |
| / _{BE} (on) | Base-Emitter On Voltage | V _{CE} = -10V, I _C = -100mA | | -2 | V |
| т | * Current Gain Bandwidth Product | V _{CE} = -20V, I _C = -10mA, f=20MHz | 40 | 200 | MHz |
| ob | Output Capacitance | V _{CB} = -20V, I _E =0, f=1MHz | | 6 | pF |
| C _{EB} | Emitter-Base Capacitance | V _{EB} = -0.5V, I _C =0, f=1MHz | | 100 | pF |
| t _{ON} | Turn On Time | V_{BE} (off)= -2V, V_{CC} = -100V | | 200 | ns |
| | | I _C = -50mA, I _{B1} = -10mA | | | |
| t _{OFF} | Turn Off Time | V _{CC} = -100V, I _C = -50mA | | 3.5 | ns |
| | | $I_{B1} = I_{B2} = 10 \text{mA}$ | | | |



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PRODUCT STATUS DEFINITIONS

Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|---------------------------|---|
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