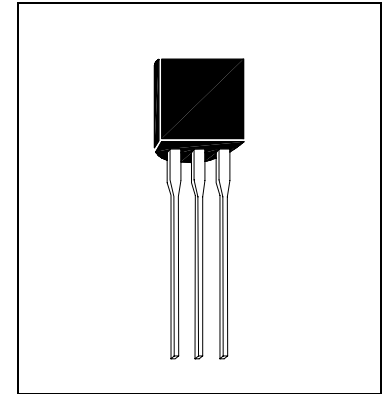




2SA1015

PNP EPITAXIAL PLANAR TRANSISTOR



Description

The 2SA1015 is designed for use in driver stage of AF amplifier and general purpose amplification.

Absolute Maximum Ratings

- Maximum Temperatures
Storage Temperature -55~+150°C
Junction Temperature +150°C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Ta=25°C) 400 mW
- Maximum Voltages and Currents (Ta=25°C)
VCBO Collector to Base Voltage 50 V
VCEO Collector to Emitter Voltage 50 V
VEBO Emitter to Base Voltage 5 V
IC Collector Current 150 mA

Characteristics (Ta=25°C)

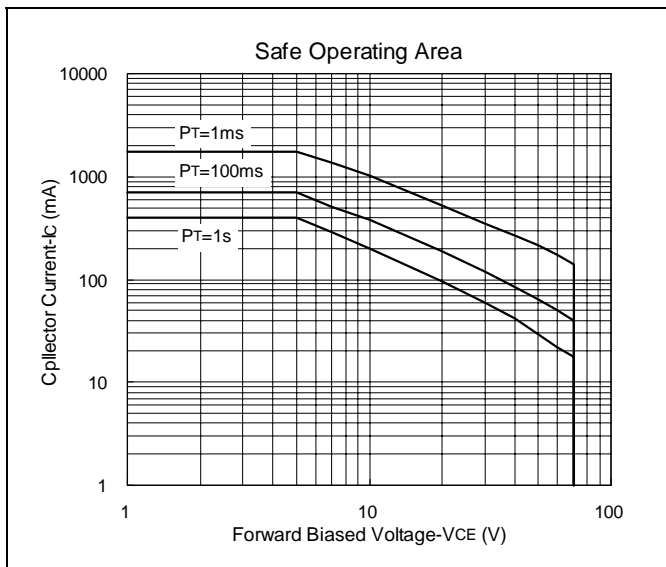
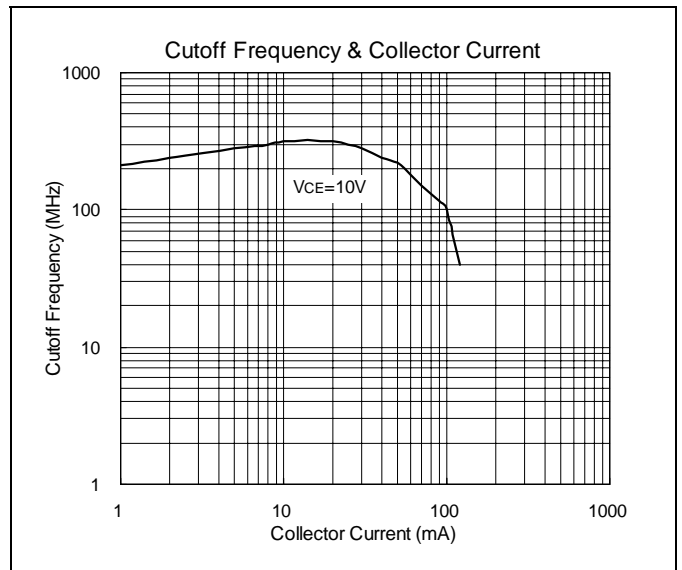
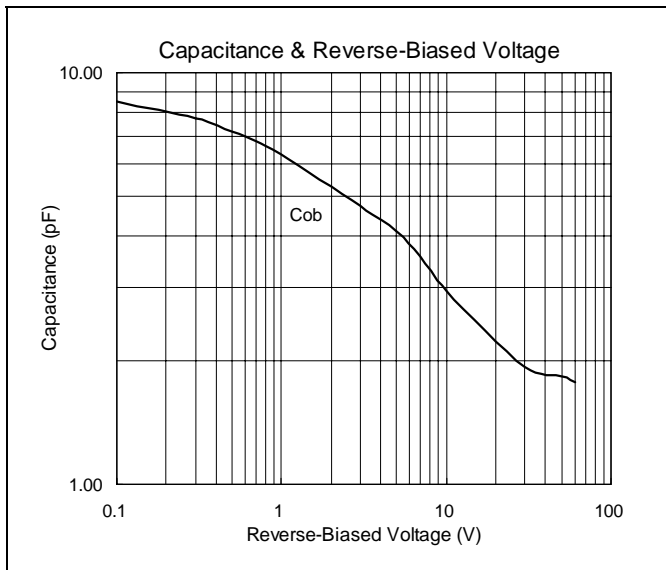
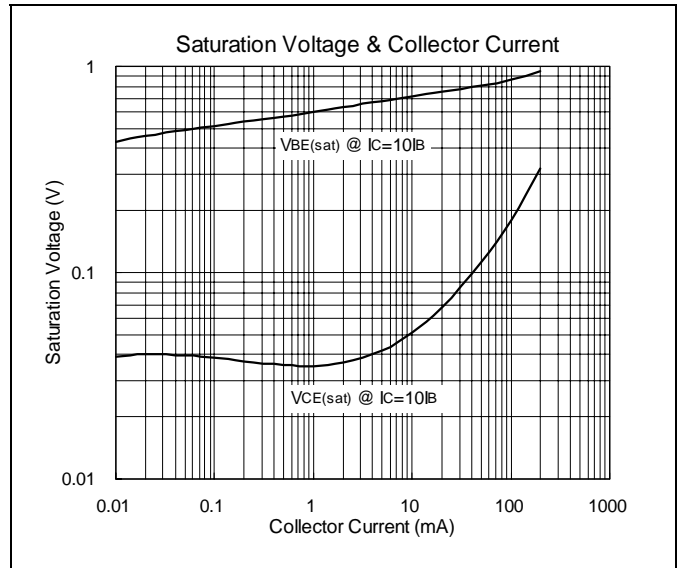
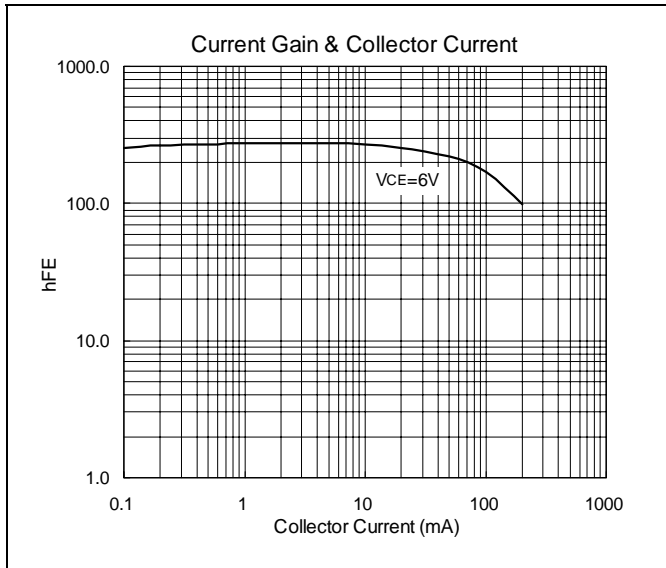
| Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|----------|------|------|------|------|---------------------------|
| BVCBO | 50 | | | V | IC=100uA, IE=0 |
| BVCEO | 50 | | | V | IC=1mA, IB=0 |
| BVEBO | 5 | | | V | IE=10uA, IC=0 |
| ICBO | | | 100 | nA | VCB=50V, IE=0 |
| IEBO | | | 100 | nA | VEB=5V, IC=0 |
| VCE(sat) | | | 300 | mV | IC=100mA, IB=10mA |
| VBE(sat) | | | 1.1 | V | IC=100mA, IB=10mA |
| hFE1 | 120 | | 700 | | VCE=6V, IC=2mA |
| hFE2 | 25 | | | | VCE=6V, IC=150mA |
| fT | 80 | | | MHz | VCE=10V, IC=1mA, f=100MHz |
| Cob | | | 7.0 | pF | VCB=10V, f=1MHz, IE=0 |

Classification Of hFE1

| Rank | Y | GR | BL |
|-------|---------|---------|---------|
| Range | 120-240 | 200-400 | 350-700 |

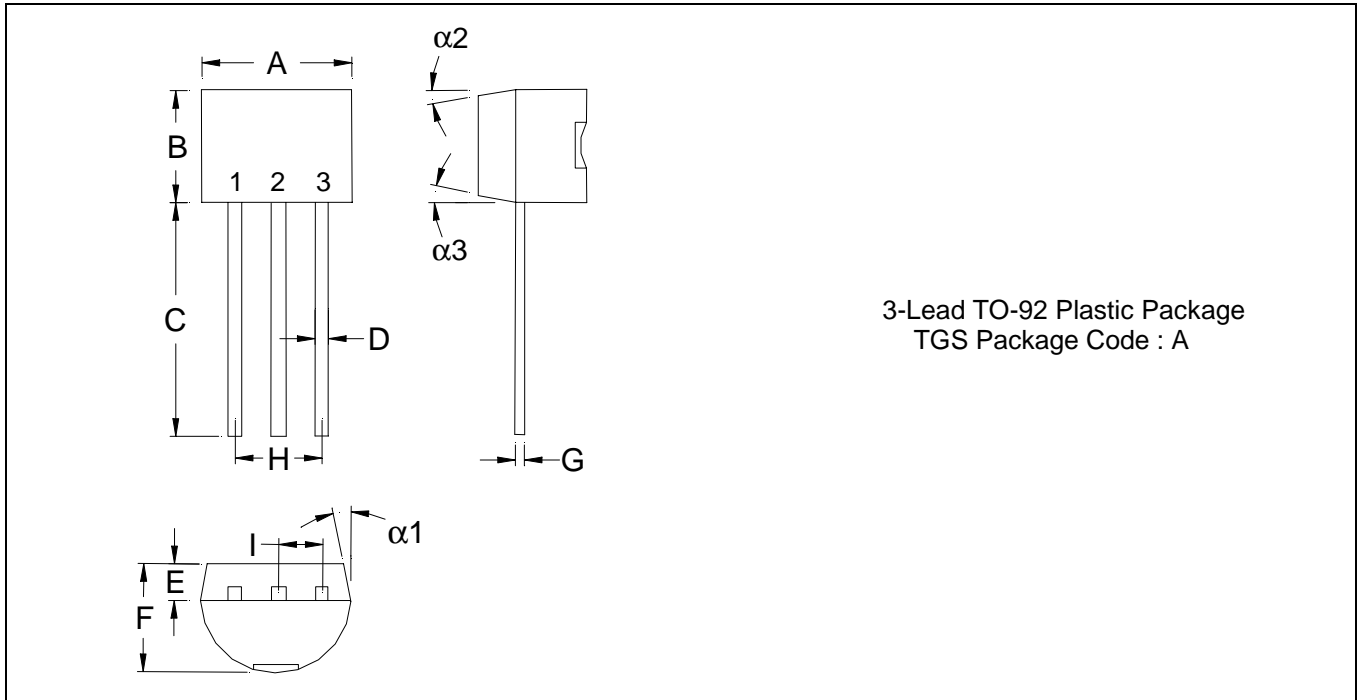


Characteristics Curve





TO-92 Dimension



*:Typical

| DIM | Inches | | Millimeters | | DIM | Inches | | Millimeters | |
|-----|--------|---------|-------------|-------|------------|--------|---------|-------------|-------|
| | Min. | Max. | Min. | Max. | | Min. | Max. | Min. | Max. |
| A | 0.1704 | 0.1902 | 4.33 | 4.83 | G | 0.0142 | 0.0220 | 0.36 | 0.56 |
| B | 0.1704 | 0.1902 | 4.33 | 4.83 | H | - | *0.1000 | - | *2.54 |
| C | 0.5000 | - | 12.70 | - | I | - | *0.0500 | - | *1.27 |
| D | 0.0142 | 0.0220 | 0.36 | 0.56 | $\alpha 1$ | - | *5° | - | *5° |
| E | - | *0.0500 | - | *1.27 | $\alpha 2$ | - | *2° | - | *2° |
| F | 0.1323 | 0.1480 | 3.36 | 3.76 | $\alpha 3$ | - | *2° | - | *2° |