

GTM CORPORATION

ISSUED DATE :2004/11/18
REVISED DATE :

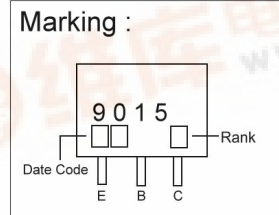
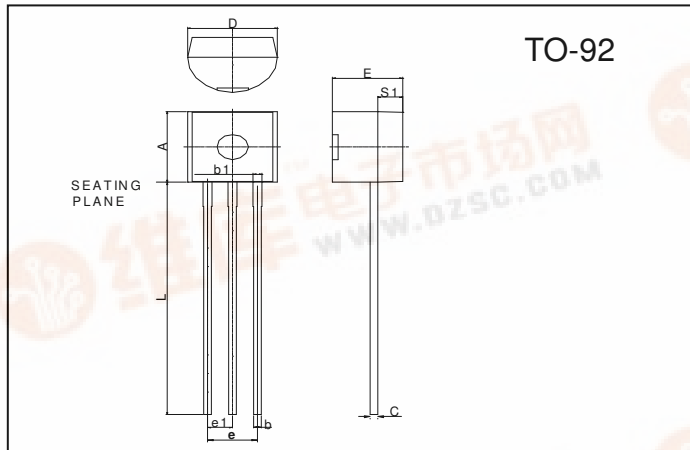
G9015

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The G9015 is designed for use in pre-amplifier of low level and low noise.

Package Dimensions



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|-------|
| | Min. | Max. | | Min. | Max. |
| A | 4.45 | 4.7 | D | 4.44 | 4.7 |
| S1 | 1.02 | - | E | 3.30 | 3.81 |
| b | 0.36 | 0.51 | L | 12.70 | - |
| b1 | 0.36 | 0.76 | e1 | 1.150 | 1.390 |
| C | 0.36 | 0.51 | e | 2.42 | 2.66 |

Absolute Maximum Ratings at Ta = 25°C

| Parameter | Symbol | Ratings | Unit |
|------------------------------|--------|------------|------|
| Junction Temperature | Tj | +150 | °C |
| Storage Temperature | Tstg | -55 ~ +150 | °C |
| Collector to Base Voltage | VCBO | -50 | V |
| Collector to Emitter Voltage | VCEO | -45 | V |
| Emitter to Base Voltage | VEBO | -5 | V |
| Collector Current | IC | -100 | mA |
| Total Power Dissipation | PD | 450 | mW |

Characteristics at Ta = 25°C

| Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|-----------|------|-------|-------|------|--------------------|
| BVCBO | -50 | - | - | V | IC=-100uA, IE=0 |
| BVCEO | -45 | - | - | V | IC=-1mA, IB=0 |
| BVEBO | -5 | - | - | V | IE=-100uA, IC=0 |
| ICBO | - | - | -50 | nA | VCB=-50V, IE=0 |
| IEBO | - | - | -50 | nA | VEB=-5V, IC=0 |
| *VCE(sat) | - | -0.20 | -0.7 | V | IC=-100mA, IB=-5mA |
| *VBE(sat) | - | -0.82 | -1.0 | V | IC=-100mA, IB=-5mA |
| VBE(on) | -0.6 | -0.65 | -0.75 | V | VCE=-5V, IC=-2mA |
| *hFE | 100 | 200 | 600 | | VCE=-5V, IC=-1mA |
| fT | 100 | 190 | - | MHz | VCE=-5V, IC=-10mA |
| Cob | - | 4.5 | 7 | pF | VCB=-10V, f=1MHz |

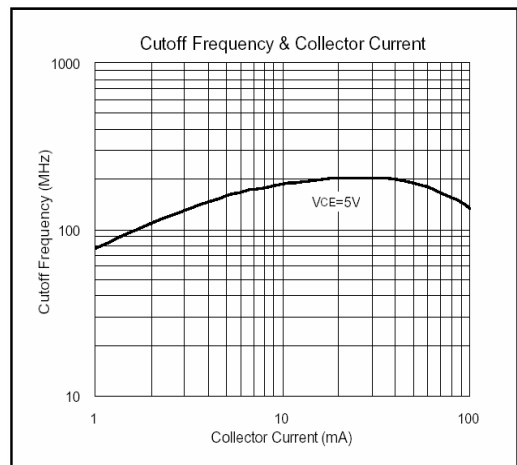
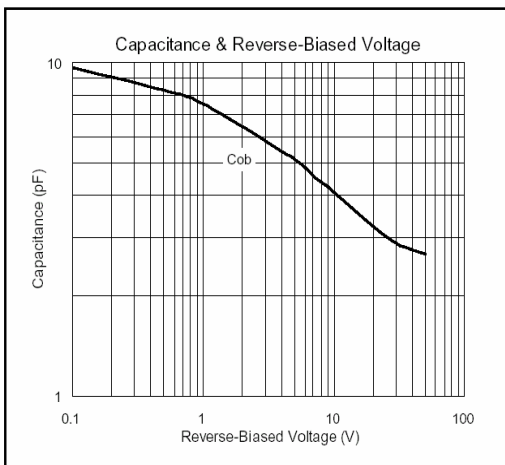
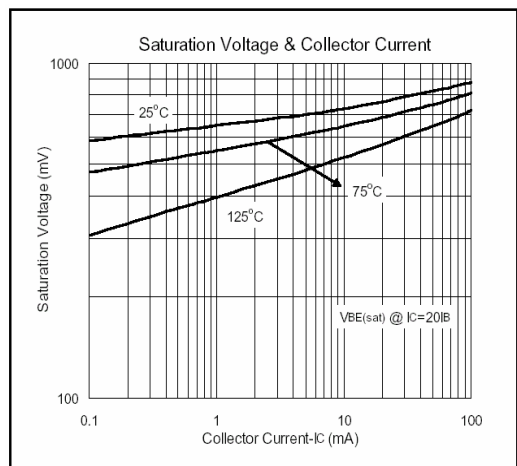
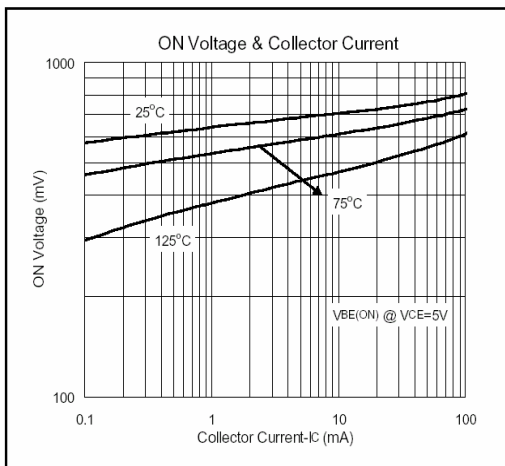
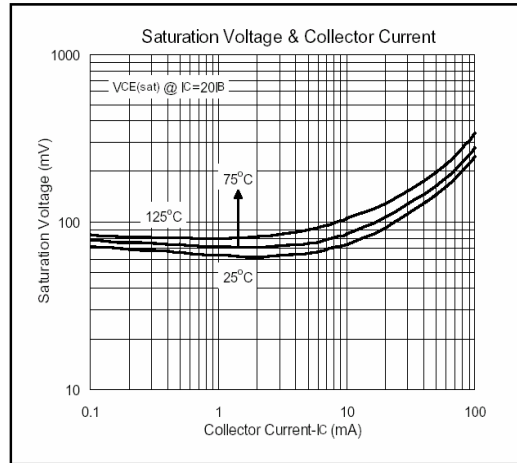
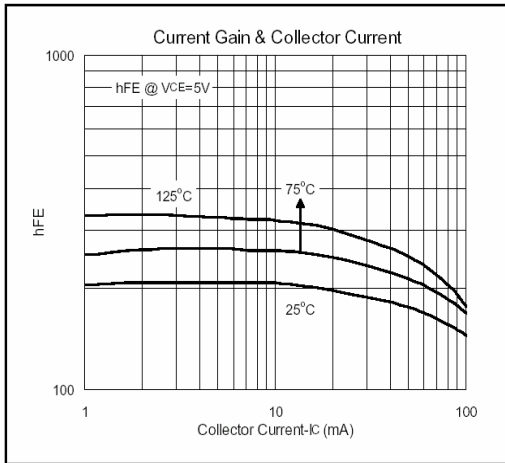
*Pulse Test: Pulse Width≤380us, Duty Cycle≤2%

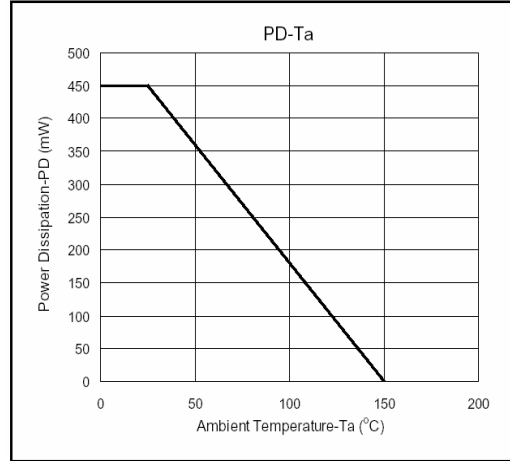
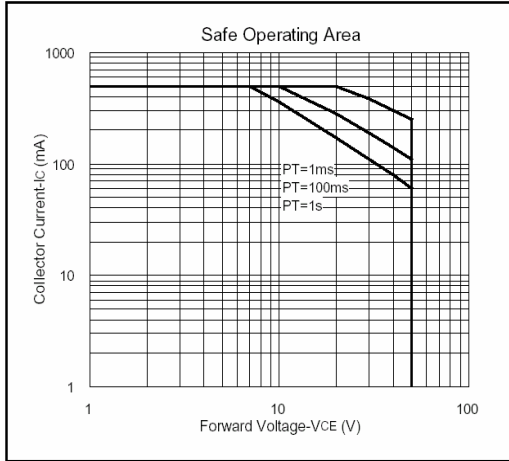
Classification Of hFE

| Rank | B | C |
|------|-----------|-----------|
| hFE | 100 - 300 | 200 - 600 |



Characteristics Curve





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