

## Silicon PNP transistor epitaxial type **A5887**

### [ Applications ]

General purpose amplifier

### [ Feature ]

Suitable for small surface mount package built-in with shrinked die  
 High collector-emitter breakdown voltage BVCEO= -50V  
 High collector current IC= -100mA  
 Excellent hFE linearity

### [ Absolute maximum ratings (Ta=25C) ]

| Characteristic            | Symbol | Maximum ratings | Unit |
|---------------------------|--------|-----------------|------|
| Collector-base voltage    | VCBO   | -50             | V    |
| Collector-emitter voltage | VCEO   | -50             | V    |
| Emitter-base voltage      | VEBO   | -5              | V    |
| Collector current         | IC     | -100            | mA   |
| Base current              | IB     | -30             | mA   |
| Junction temperature      | Tj     | 150             | C    |
| Storage temperature       | Tstg   | -55 to 150      | C    |

### [ Electrical characteristics (Ta=25C) ]

| Characteristic                       | Symbol   | Min. | Typ.  | Max. | Unit | Conditions                  |
|--------------------------------------|----------|------|-------|------|------|-----------------------------|
| Collector-base breakdown voltage     | BVCBO    | -50  | -     | -    | V    | IC= -10uA, IE= 0A           |
| Collector-emitter breakdown voltage  | BVCEO    | -50  | -     | -    | V    | IC= -100uA, IB= 0A          |
| Emitter-base breakdown voltage       | BVEBO    | -5   | -     | -    | V    | IE= -10uA, IC= 0A           |
| Collector cut-off current            | ICBO     | -    | -     | -0.1 | uA   | VCB= -50V, IE= 0A           |
| Emitter cut-off current              | IEBO     | -    | -     | -0.1 | uA   | VEB= -5V, IE= 0A            |
| DC current gain                      | hFE      | 120  | -     | 400  | -    | VCE= -6V, IC= -2mA          |
| Collector-emitter saturation voltage | VCE(sat) | -    | -0.18 | -0.3 | V    | IC= -100mA, IB= -10mA       |
| Transition frequency                 | f T      | 80   | -     | -    | MHz  | VCE= -10V, IE= 1mA          |
| Collector output capacitance         | Cob      | -    | 1.6   | -    | pF   | VCB= -10V, f = 1MHz, IE= 0A |

Notice 1) These are measured data of transistors assembled by PHENITEC SEMICONDUCTOR Corp. and are for reference only.

Notice 2) The contents described herein are subject to change without notice.

No. A5887-20090617

