



Specification	Products	Type
	BC807	BC807

FD:514-807

1. SCOPE BC807

1.1 Scope. This specification covers the detail requirements for one type PNP silicon epitaxial planar transistor designed for audio frequency small signal amplifier.

1.2 Physical dimensions. See figure 1.

1.3 Absolute maximum ratings. (Ta = 25°C)

Collector to base voltage	V _{CBO}	.....	-50V
Collector to emitter voltage	V _{CEO}	.....	-45V
Emitter to base voltage	V _{EBO}	.....	-5V
Collector current	I _C	.....	-800mA
Power dissipation-Free Air	P _C	.....	200mW
* Power dissipation-Ceramic Substrate	P _C	.....	330mW
Junction temperature	T _j	.....	150°C
Storage temperature range	T _{stg}	.....	-55~150°C

* Package mounted on ceramic 7×5×0.6mm

2. Electrical characteristics (Ta = 25°C)

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
BV _{CBO}	I _C = -100 μA	-50	-	-	V
BV _{CEO}	I _C = -10 mA	-45	-	-	V
BV _{EBO}	I _E = -10 μA	-5	-	-	V
IC _{BO}	V _{CB} = -25 V	-	-	-100	nA
IE _{BO}	V _{EB} = -4 V	-	-	-100	nA
V _{CE(sat)}	I _C = -500 mA, I _B = -50 mA	-	-	-0.7	V
V _{BE(sat)}	I _C = -500 mA, I _B = -50 mA	-	-	-2.0	V
hFE 1	V _{CE} = -1 V, I _C = -100 mA	100	-	400	-
hFE 2	V _{CE} = -1 V, I _C = -300 mA	60	-	-	-
f _T	V _{CB} = -5 V, I _E = -50 mA, f = 20 MHz	-	150	-	MHz
C _{ob}	V _{CB} = -10 V, f = 1 MHz	-	10	-	pF
C _{ib}	V _{EB} = -0.5 V, f = 1 MHz	-	60	-	pF
IC _{BO}	V _{CB} = -25 V, Ta = 150°C	-	-	-5	μA

This parts are classified into the categories below and given hFE item.

Part No.	BC807-16	BC807-25
hFE 1	100~250	160~400
hFE 2	60~	100~

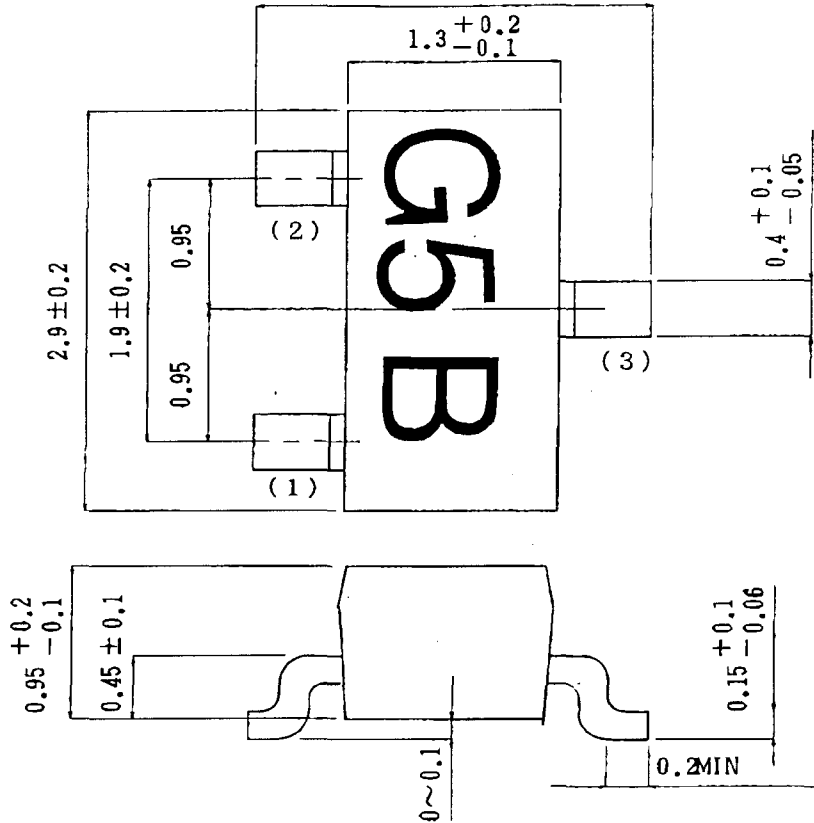


Specification	Products	Type
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DIMENSION

2.4±0.2

FD:fig-8227



- (1) Emitter
- (2) Base
- (3) Collector

UNIT : mm

The net weight
9 mg / p c e

'G 5' is symbol mark of BC 8 0 7. Marking Code BC807-16 . . . G 5 A
BC807-25 . . . G 5 B

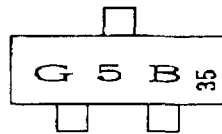
* Two kinds of marking.

'3 5' means the production week.

Its direction signifies odd year, or even year.

ODD YEAR (ex:35th)

EVEN YEAR (ex:35th)



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