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℃)

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℃
Storage temperature range	T_{stg}	−55～150℃

* Package mounted on ceramic 7×5×0.6mm

2. Electrical characteristics (Ta = 25℃)

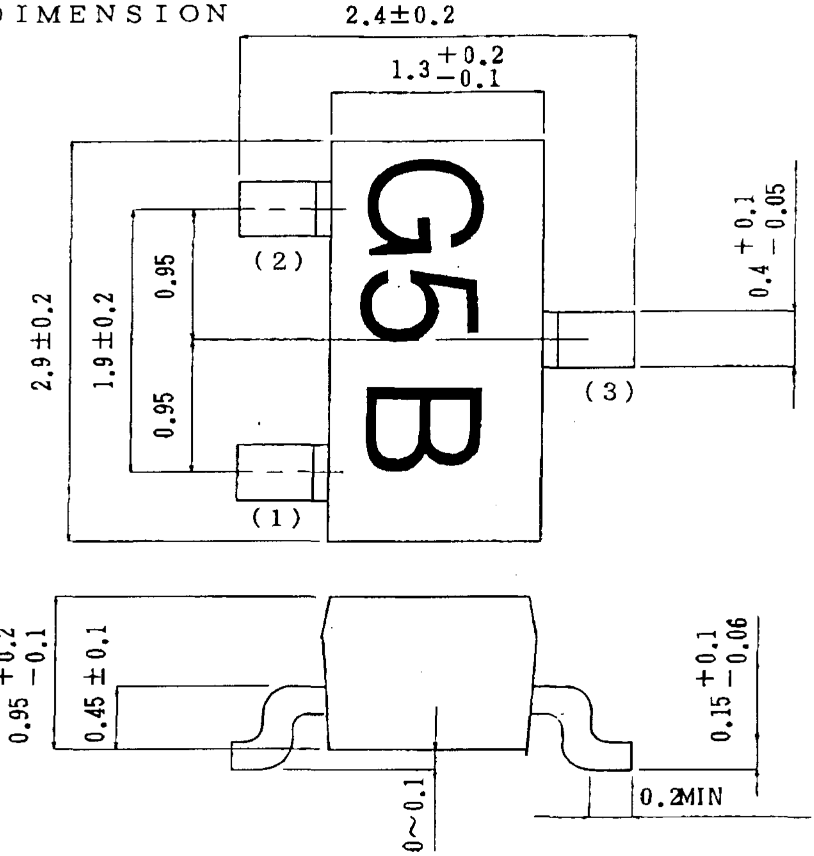
PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
BVCBO	IC=-100μA	-50	—	—	V
BVCEO	IC=-10mA	-45	—	—	V
BVEBO	IE=-10μA	-5	—		V
ICBO	VCB=-25V	—	—	-100	nA
IEBO	VEB=-4V	—	—	-100	nA
VCE(sat)	IC=-500mA, IB=-50mA	—	—	-0.7	V
VBE(sat)	IC=-500mA, IB=-50mA	—	—	-2.0	V
hFE 1	VCE=-1V, IC=-100mA	100	—	400	—
hFE 2	VCE=-1V, IC=-300mA	60	—	—	—
fT	VCB=-5V, IE=-50mA, f=20MHz	—	150	—	MHz
Cob	VCB=-10V, f=1MHz	—	10	—	pF
Cib	VEB=-0.5V, f=1MHz	—	60	—	pF
ICBO	VCB=-25V, Ta=150℃	—	—	-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～

DIMENSION

FD:fig-8227



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

UNIT : mm

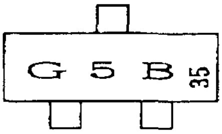
The net weight
9mg／pce

'G5' is symbol mark of BC807. Marking Code BC807-16・・・G5A
BC807-25・・・G5B

* Two kinds of marking.

'35' maens the production week.
Its direction signifies odd year, or even year.

ODD YEAR (ex:35th)



EVEN YEAR (ex:35th)