

DESCRIPTION

Mitsubishi 2SA1630 is a resin sealed silicon PNP epitaxial type transistor designed for low frequency voltage amplify application.

Complementary with 2SC4266.

FEATURE

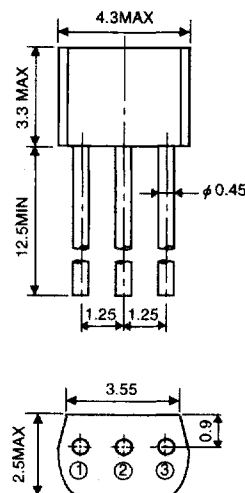
- Excellent linearity of DC forward current gain
- Low collector saturation voltage
 $V_{CE(sat)} = -0.3V$ max (@ $I_C = -30mA, I_B = -1.5mA$)
- Small package

APPLICATION

Small type machine low frequency voltage amplify.

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

- ①: EMITTER
②: COLLECTOR
③: BASE
- EIAJ: —
JEDEC: —

Note)

The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{CB0}	Collector to Base voltage	-50	V
V _{EB0}	Emitter to Base voltage	-6	V
V _{CE0}	Collector to Emitter voltage	-50	V
I _C	Collector current	-100	mA
P _C	Collector dissipation(Ta=25°C)	300	mW
T _j	Junction temperature	+125	°C
T _{stg}	Storage temperature	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

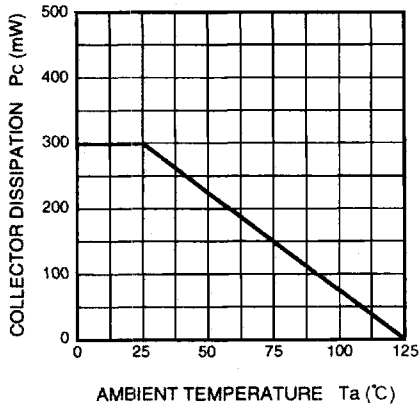
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V _{(BR)CEO}	C to E break down voltage	I _C =-100 μ A, R _{BE} = ∞	-50			V
I _{CBO}	Collector cut off current	V _{CB} =-50V, I _E =0			-0.5	μ A
I _{EBO}	Emitter cut off current	V _{EB} =-4V, I _C =0			-0.5	μ A
h _{FE} *	DC forward current gain	V _{CE} =-6V, I _C =-1mA	120		820	—
h _{FE}	DC forward current gain	V _{CE} =-6V, I _C =-0.1mA	70			—
V _{CE(sat)}	C to E saturation voltage	I _C =-30mA, I _B =-1.5mA			-0.3	V
f _T	Gain band width product	V _{CE} =-6V, I _E =10mA		200		MHz
C _{ob}	Collector output capacitance	V _{CB} =-6V, I _E =0, f=1MHz		2.5		pF

* : It shows h_{FE} classification in right table.

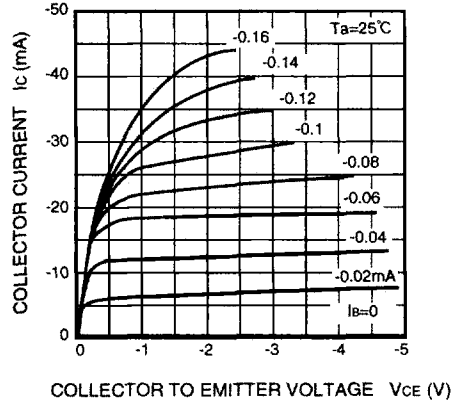
Item	Q	R	S	T
h _{FE}	120 to 270	180 to 390	270 to 560	390 to 820

TYPICAL CHARACTERISTICS

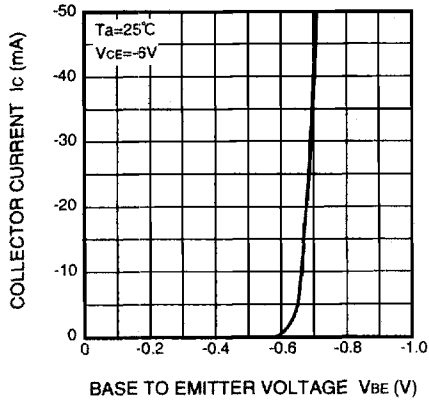
COLLECTOR DISSIPATION
VS. AMBIENT TEMPERATURE



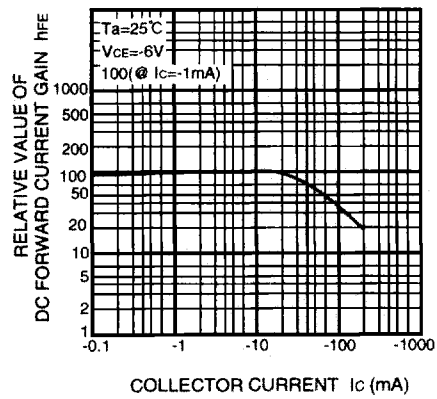
COMMON EMITTER OUTPUT



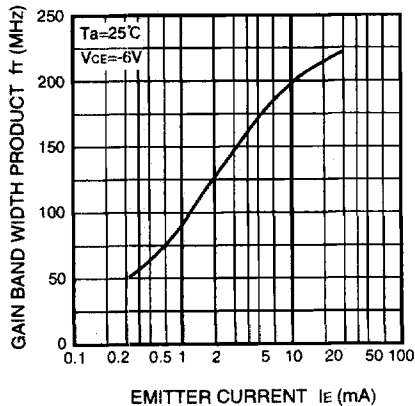
COMMON EMITTER TRANSFER



DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT
VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE
VS. COLLECTOR TO BASE VOLTAGE

