

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE(Super mini type)

DESCRIPTION

2SA1603 is a super mini package resin sealed silicon PNP epitaxial transistor, It is designed for low frequency voltage application.

FEATURE

- Small collector to emitter saturation voltage.
VCE(sat)=-0.3V max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

For Hybrid IC,small type machine low frequency voltage Amplify application.

MAXIMUM RATINGS(Ta=25)

Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector to Base voltage	-50	V
V _{CEO}	Collector to Emitter voltage	-50	V
V _{EBO}	Emitter to Base voltage	-6	V
I _O	Collector current	-100	mA
P _C	Collector dissipation	150	mW
T _j	Junction temperature	+ 125	
T _{stg}	Storage temperature	-55 ~ + 125	

ELECTRICAL CHARACTERISTICS(Ta=25)

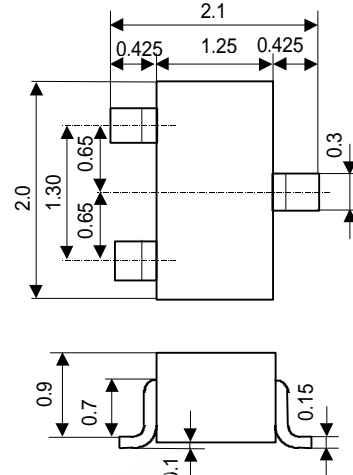
Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	V(BR) _{CEO}	I _C =-100 μA, R _{BE} =	-50	-	-	V
Collector cut off current	ICBO	V _{CB} =-50V, I _E =0mA	-	-	-0.5	μA
Emitter cut off current	IEBO	V _{EB} =-4V, I _C =0mA	-	-	-0.5	μA
DC forward current gain	hFE	V _{CE} =-6V, I _C =-1mA	120	-	820	
DC forward current gain	hFE	V _{CE} =-6V, I _C =-0.1mA	70	-	-	
C to E Saturation Voltage	VCE(sat)	I _C =-30mA, I _B =-1.5mA	-	-	-0.3	V
Gain bandwidth product	fT	V _{CE} =-6V, I _E =10mA	-	200	-	MHz
Collector output capacitance	Cob	V _{CB} =-6V, I _E =0,f=1MHz	-	2.5	-	pF

) It shows hFE classification in below table.

Item	Q	R	S	T
h F E Item	120-270	180-390	270-560	390-820

OUTLINE DRAWING

Unit: mm



JEITA: SC-70

TERMINAL CONNECTER

- : BASE
- : EMITTER
- : COLLECTOR

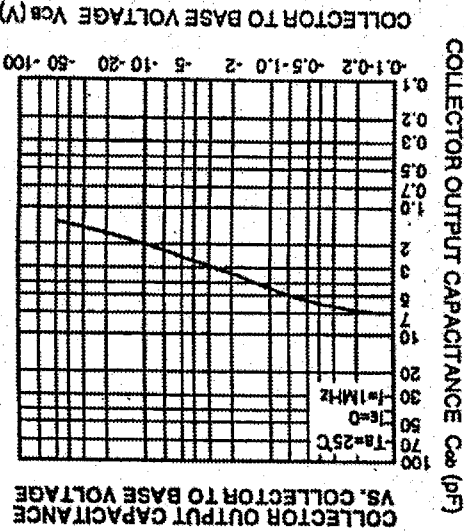
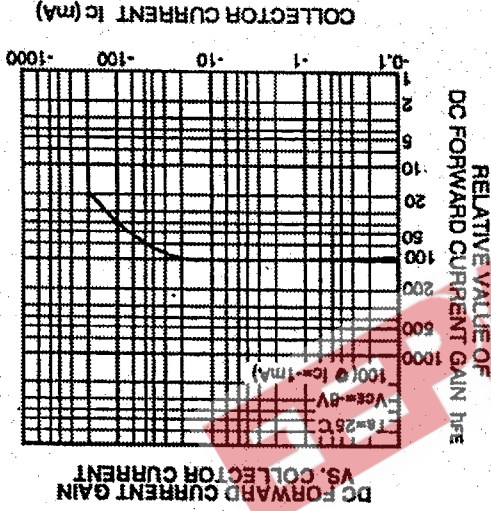
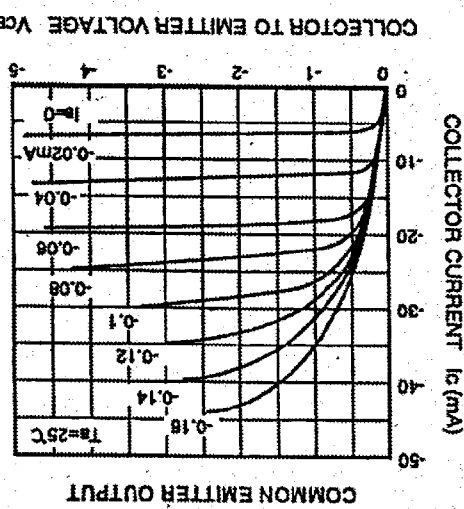
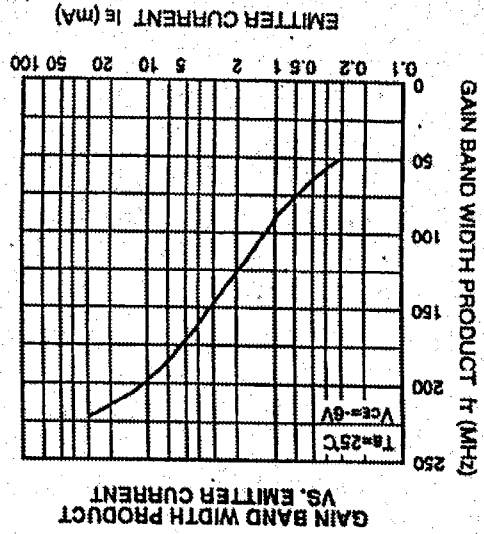
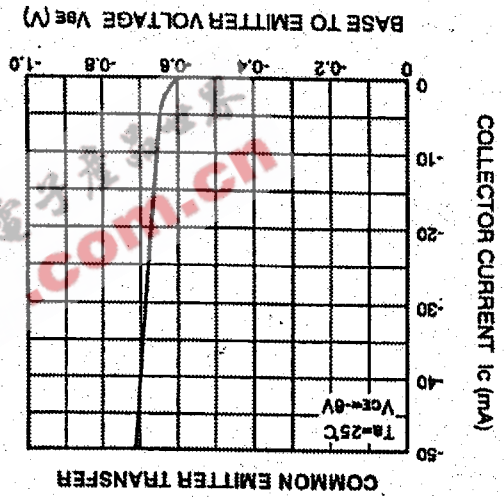
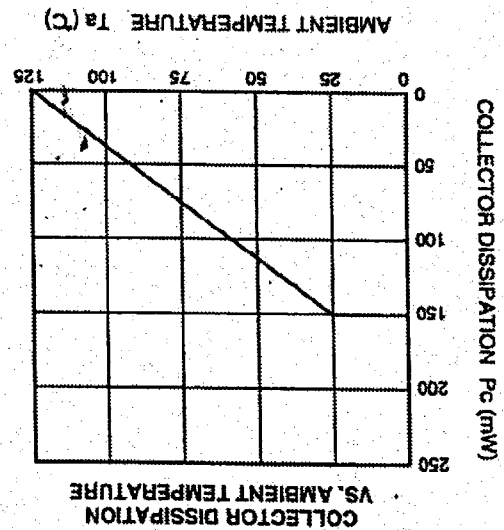
Silicon PNP Epitaxial Type (Super Mini type)
For Low Frequency Amplify Application

2SA1603

(Transistor)

Semiconductor

TYPICAL CHARACTERISTICS





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