2SA1602

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

DESCRIPTION

2SA1602 is a super mini package resin sealed silicon PNP epitaxial transistor,

It is designed for low frequency voltage application.

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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	-200	mA
P _c	Collector dissipation	150	mW
T _j	Junction temperature	+ 125	
T_{stg}	Storage temperature	-55 ~ + 125	

JEITA: SC-70 TERMINAL CONNECTER : BASE : EMITTER : COLLECTOR

ELECTRICAL CHARACTERISTICS (Ta=25)

Doromotor	Symbol Tes	Test conditions	Limits			l loit
Parameter		rest conditions	Min	Тур	Max	Unit
C to E break down voltage	V(BR)ceo	I _C =-100 μ A ,R _{BE} =	-50	-	-	V
Collector cut off current	ICBO	V_{CB} =-50V, I_{E} =0mA	ı	-	-0.1	μΑ
Emitter cut off current	IEBO	V_{EB} =-6V, I $_{C}$ =0mA	ı	1	-0.1	μΑ
DC forward current gain	hFE	V_{CE} =-6V, I_{C} =-1mA	150	-	800	
DC forward current gain	hFE	V_{CE} =-6V, I_{C} =-0.1mA	90	1	-	
C to E Saturation Vlotage	VCE(sat)	I _C =-100mA ,I _B =-10mA	ı	1	-0.3	V
Gain bandwidth product	fT	V _{CE} =-6V, I _E =-10mA	ı	200	-	MHz
Collector output capacitance	Cob	V_{CB} =-6V, I_{E} =0, f =1MHz	1	4.0	-	pF

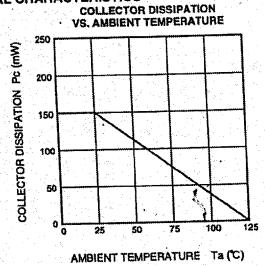
) It shows hFE classification in below table.

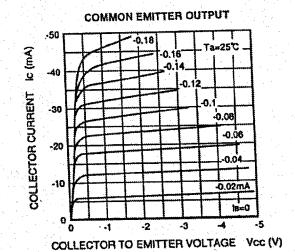
Item	Е	F	G
h F E Item	150~300	250~500	400~800

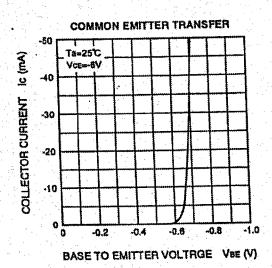
2SA1602

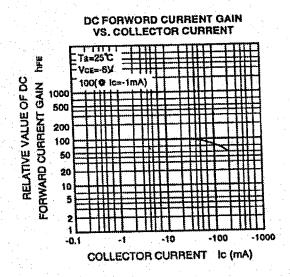
For Low Frequency Amplify Application Silicon PNP Epitaxial Type (Super Mini type)

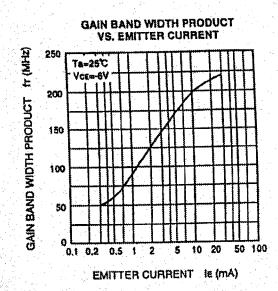
TYPICAL CHARACTERISTICS

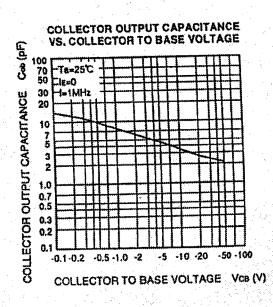










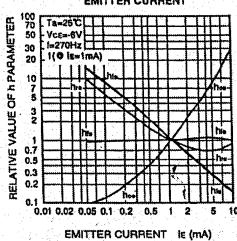


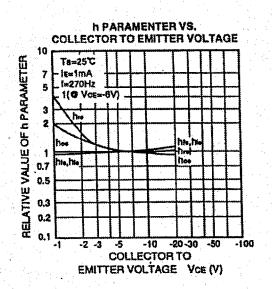
Semiconductor (Transistor)

2SA1602

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







COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test conditions	Umits	Unit
hie	Closed loop small signal input impedance	Ta=25°C	7.0	kΩ
hre	Open loop small signal reverse voltage amplification factor	VCE=-6V	0.1	X10 ⁻³
hie	Closed loop small signal forward current amplification factor	le=1mA	250	
hoe	Open loop small signal output admittance	1=270Hz	18	μS



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