PRELIMINARY

Notics: This is not a final specification. Some parametric limits are subject to change.

DESCRIPTION

2SC5804 is a super mini package resin sealed silicon NPN epitaxial transistor,

It is designed for low frequency application.

Since it is a super-thin flat lead type package, a high-density mounting are possible.

Complementary with 2SC3052.

FEATURE

Super-thin flat lead type package. t=0.45mm Excellent linearly of DC forward current gain.

Low collector to emitter saturation voltage

VCE(sat)=0.3V max (@Ic=100mA/IB=10mA)

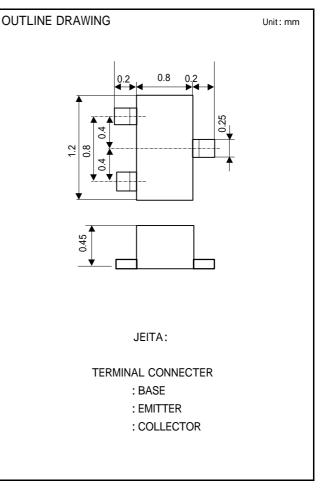
APPLICATION

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	6	V	
V _{EBO}	Emitter to Base voltage	50	V	
Ιo	Collector current	200	mA	
Pc	Collector dissipation	100	mW	
Tj	Junction temperature	+ 125		
T _{stg}	Storage temperature	-55 ~ + 125		

ELECTRICAL CHARACTERISTICS(Ta=25)



			Limits			
			Min	Тур	Max	
Collector to Emitter Breakdown voltage	V(BR)CEO	I _C =100 μ A, R _{BE} =	50			V
Collector cut off current	ICBO	V _{CB} =50V, I _E =0mA	-	-	0.1	μA
Emitter cut off current	IEBO	V _{EB} =6V, I _C =0mA	-	-	0.1	μA
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	-	-	-
C to E saturation voltage	VCE(sat)	I _C =100mA, I _B =10mA	-	-	0.3	v
Gain bandwidth product	fT	V _{CE} =6V, I _E =-10mA	-	200	-	MHz
Collector output capacitance	Cob	V _{CB} =6V, I _E =0mA,f=1MHz	-	2.5	-	pF
Noise figure	NF	V _{CE} =6V, I _E =-0.1mA,f=1kHz,RG=2k	-	-	15	dB

It shows hFE classification in below table.

Item	Е	F	G
hFE	150 ~ 300	250 ~ 500	400 ~ 800
Abbrivation	LE	LF	LG

ISAHAYA ELECTRONICS CORPORATION

SMALL-SIGNAL TRANSISTOR

2SC5804



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