FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3052 is a mini package resin sealed silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

FEATURE

● Small collector to emitter saturation voltage.

 $VCE(sat)=0.3V\ max(@IC=100mA/IB=10mA)$

- Excellent linearity of DC forward current gain.
- Super mini package for easy mounting

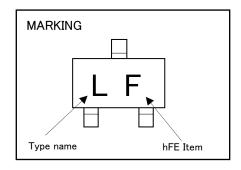
APPLICATION

For Hybrid IC, Small type machine low frequency voltage amplify application.

MAXIMUM RATINGS (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to Base voltage	V_{CBO}	50	>
Emitter to Base voltage	V_{EBO}	6	>
Collector to Emitter voltage	V _{CEO}	50	٧
Collector current	I o	200	mA
Collector dissipation	P _o	200	mW
Junction temperature	T _j	+150	လူ
Storage temperature	T_{stg}	-55 ~ +150	°C

OUTLINE DRAWING 2.8 0.65 1.5 0.65 1.5 0.65 1.5 0.65 1.5 0.65 2.8 0.65 1.5 0.65 1.5 0.65 2.8 2.8 0.65 1.5 0.65 2.8 2.8 0.65 1.5 0.65 2.8 2.8 2.8 2.8 2.8 3.1 Elio 3.2 Elio 3.3 Elio 4.3 Elio 4.3 Elio 4.3 Elio 5.3 Elio 6.3 Elio 6.3



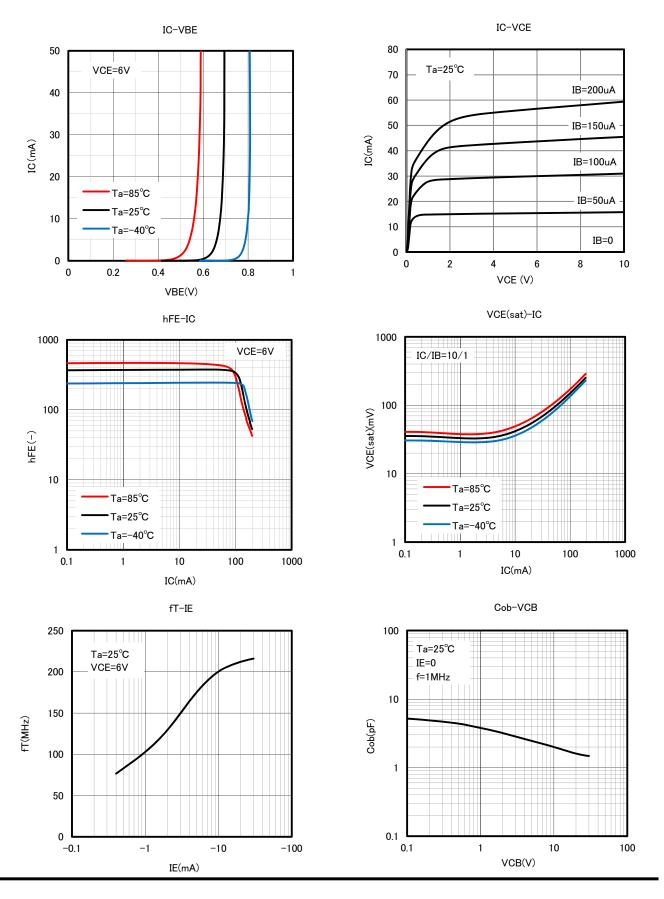
ELECTRICAL CHARACTERISTICS(Ta=25°C)

	Symbol	-		Limits		
Parameter S		Test conditions	Min	Тур	Max	Unit
C to E breakdown voltage	V(BR)ceo	I _C =100 μ A ,R _{BE} =∞	50	-	-	٧
Collector cut off current	ICBO	V _{CB} =50V, I _E =0mA	_	-	0.1	μΑ
Emitter cut off current	I EBO	V_{EB} =6V, I $_{C}$ =0mA	_	-	0.1	μΑ
DC forward current gain 💥	hFE	V _{CE} =6V, I _C =1mA	150	-	500	-
DC forward current gain	hFE	V _{CE} =6V, I _C =0.1mA	100	-	-	-
C to E Saturation voltage	VCE(sat)	I _C =100mA ,I _B =10mA	-	-	0.3	٧
B to E Saturation voltage	VBE(sat)	I _C =100mA ,I _B =10mA	_	-	1.0	٧
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
Noise figure	NF	$V_{CE}=6V, I_{E}=-0.1$ mA,f=1kHz,RG=2k Ω	_	_	15	dB

X) It shows hFE classification at right table.

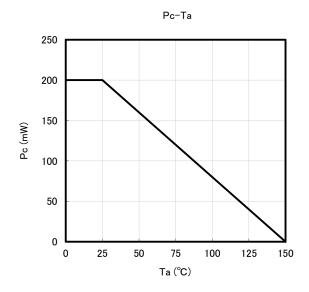
Item	E	F		
hFE Item	150~300	250~500		

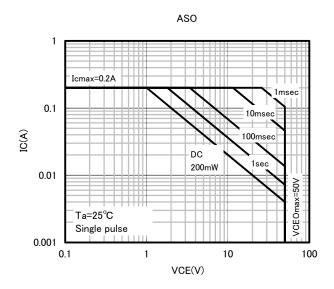
TYPICAL CHARACTERISTICS



2SC3052

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