2SC3052-T150

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

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.

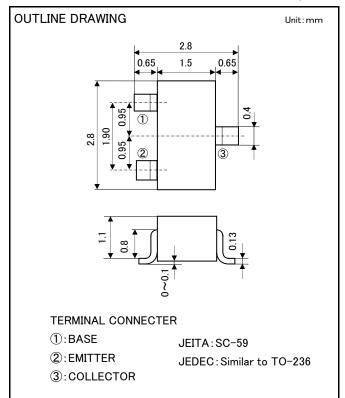
 VCE(sat)=0.3V max(@IC=100mA/IB=10mA)
- ●Excellent linearity of DC forward current gain.
- Super mini package for easy mounting

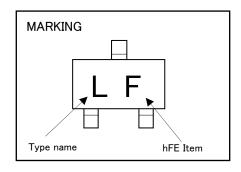
APPLICATION

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	٧
Emitter to Base voltage	V_{EBO}	6	٧
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	°C
Storage temperature	T_{stg}	-55 ~ +150	°C





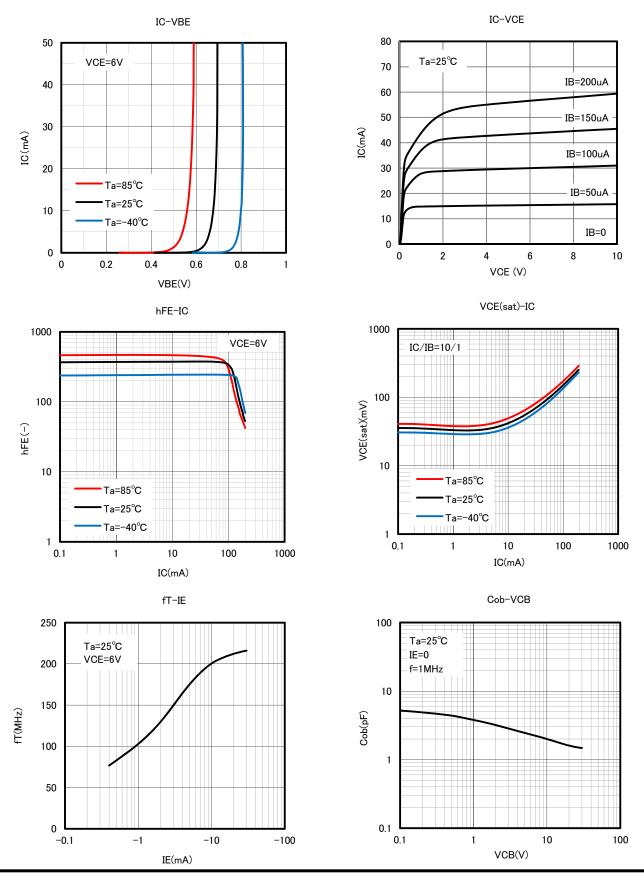
ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
Parameter			Min	Тур	Max	Unit
C to E 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	μΑ
Emitter cut off current	IЕВО	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	90	-	-	-
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	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
Noise figure	NF	V_{CE} =6 V , I_{E} =-0.1 m A, f =1 k Hz,RG=2 k Ω	-	-	15	dB

X) It shows hFE classification at right table.

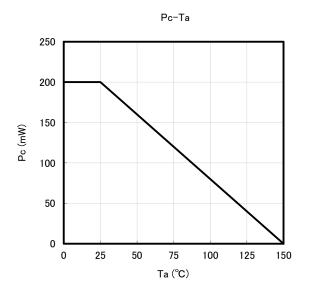
Item	E	F		
hFE Item	150~300	250~500		

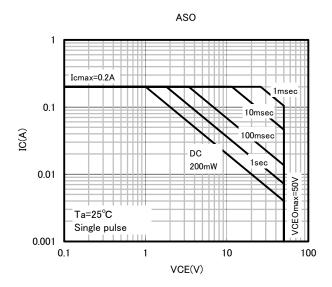
TYPICAL CHARACTERISTICS



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