2SC4154-T150

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

2SC4154 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.

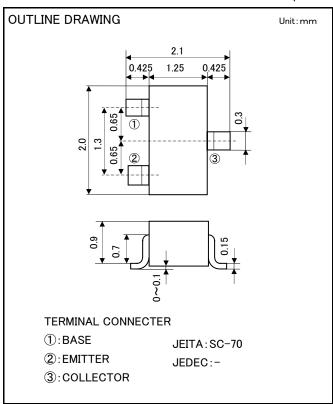
 VCE(sat)=0.3V max(@IC=100mA/IB=10mA)
- Excellent linearity of DC forward current gain.
- Super mini package for easy mounting

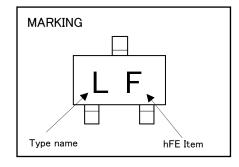
APPLICATION

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 _c	200	mW	
Junction temperature	T _j	+150	°C	
Storage temperature	T_{stg}	-55 ~ +150	°C	





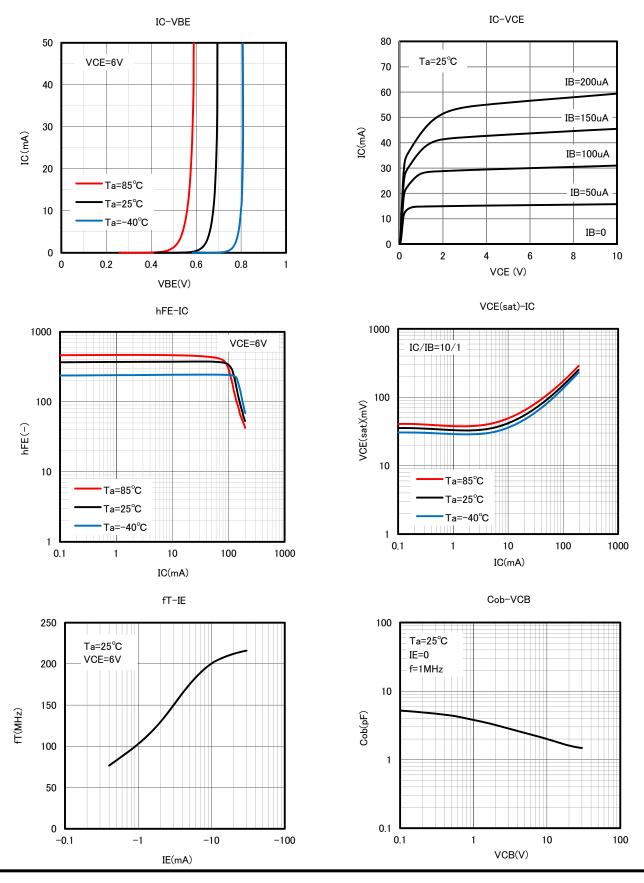
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter Sym	Consolination	Test conditions	Limits			Unit
	Symbol	rest conditions	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	I EBO	V_{EB} =6V, I $_{C}$ =0mA	ı	1	0.1	μΑ
DC forward current gain ※	hFE	$V_{CE}=6V, I_{C}=1mA$	150	1	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	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	_	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

 $\mbox{\%})$ It shows hFE classification at right table.

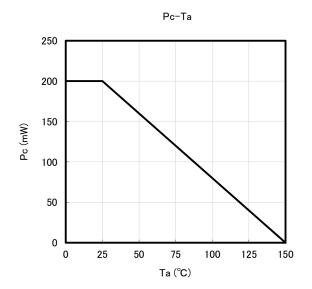
Item	Е	F
hFE Item	150~300	250~500

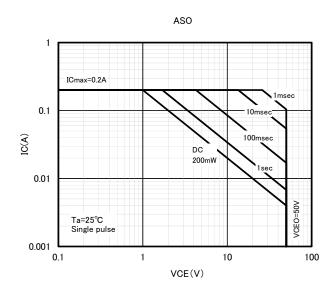
TYPICAL CHARACTERISTICS



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