

2SC4155A-T150

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

2SC4155A is a mini package resin sealed
silicon NPN epitaxial transistor.
It is designed for low frequency voltage application.

FEATURE

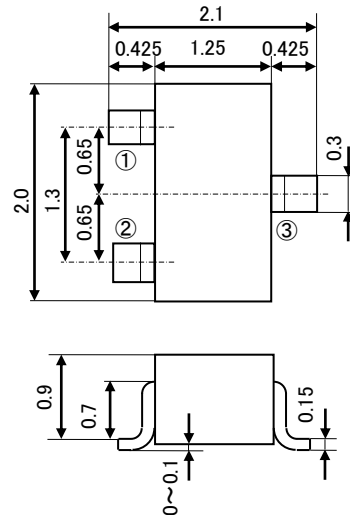
- Small collector to emitter saturation voltage
 $V_{CE(sat)}=0.3V$ max (@ $I_C=100mA$ / $I_B=10mA$)
- Excellent linearity of DC forward current gain
- Super mini package for easy mounting

APPLICATION

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

OUTLINE DRAWING

Unit: mm



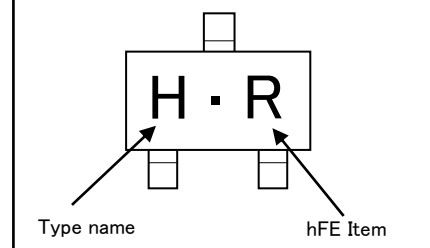
TERMINAL CONNECTER

- ①: BASE JEITA: SC-70
②: EMITTER JEDEC: -
③: COLLECTOR

MAXIMUM RATINGS ($T_a=25^{\circ}C$)

Parameter	Symbol	Ratings	Unit
Collector to Base voltage	V_{CBO}	50	V
Emitter to Base voltage	V_{EBO}	6	V
Collector to Emitter voltage	V_{CEO}	50	V
Collector current	I_C	200	mA
Collector dissipation	P_C	200	mW
Junction temperature	T_J	+150	$^{\circ}C$
Storage temperature	T_{stg}	-55~+150	$^{\circ}C$

MARKING



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E breakdown voltage	$V_{(BR)CEO}$	$I_C=100\mu A$, $R_{BE}=\infty$	50	—	—	V
Collector cut off current	I_{CBO}	$V_{CB}=50V$, $I_E=0mA$	—	—	0.1	μA
Emitter cut off current	I_{EBO}	$V_{EB}=4V$, $I_C=0mA$	—	—	0.1	μA
DC forward current gain	hFE	$V_{CE}=6V$, $I_C=1mA$	120	(※)	560	—
DC forward current gain	hFE	$V_{CE}=6V$, $I_C=0.1mA$	70	—	—	—
C to E Saturation voltage	$V_{CE(sat)}$	$I_C=100mA$, $I_B=10mA$	—	—	0.3	V
Gain bandwidth product	fT	$V_{CE}=6V$, $I_E=-10mA$	—	200	—	MHz
Collector output capacitance	Cob	$V_{CB}=6V$, $I_E=0$, f=1MHz	—	4	—	pF
Noise figure	NF	$V_{CE}=6V$, $I_E=-0.1mA$, f=1kHz, $R_G=2k\Omega$	—	—	15	dB

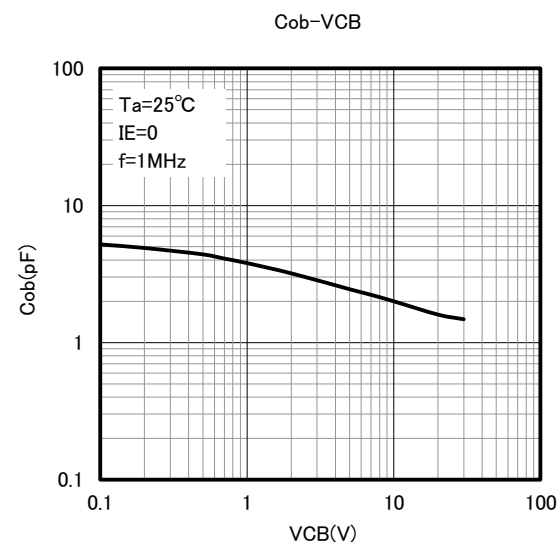
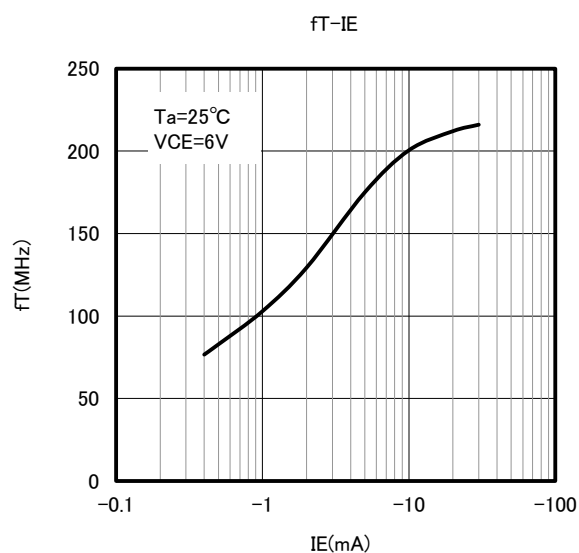
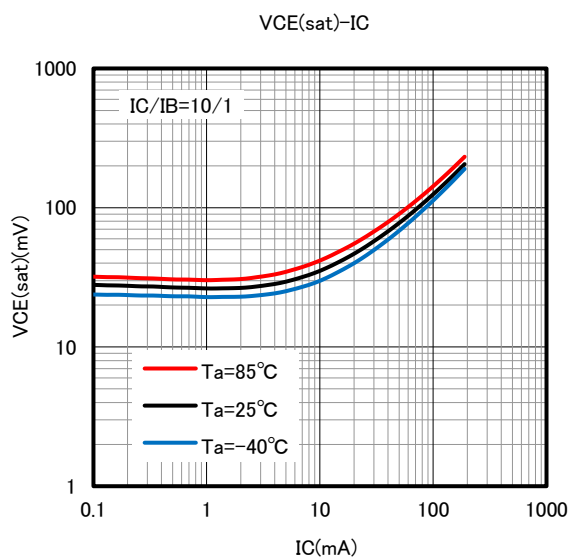
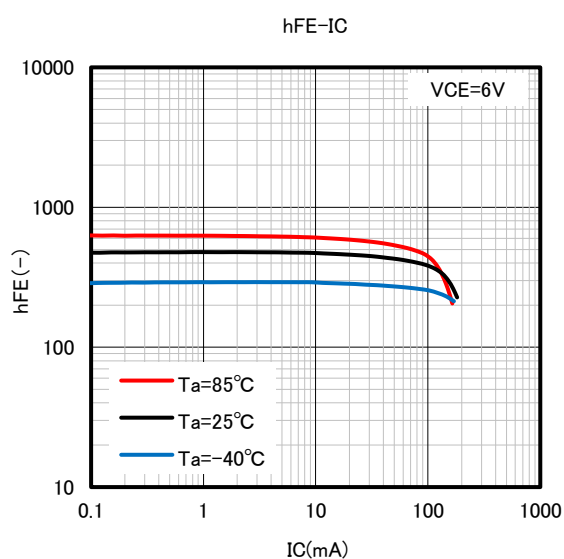
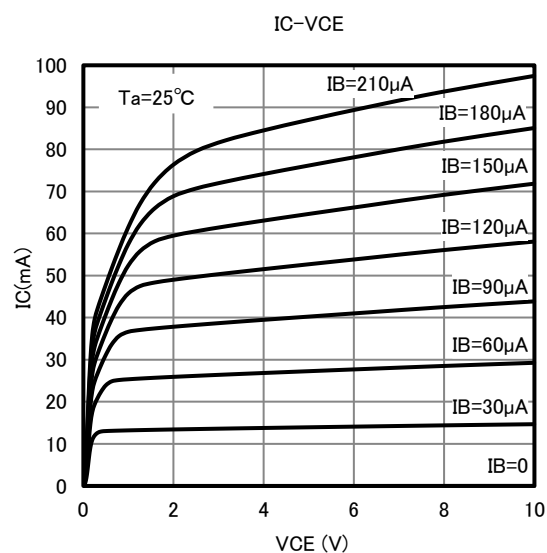
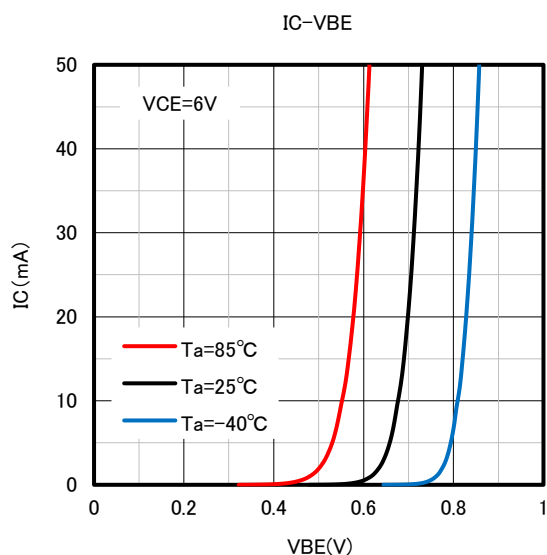
※) It shows hFE classification at right table.

Item	Q	R	S
hFE	120~270	180~390	270~560

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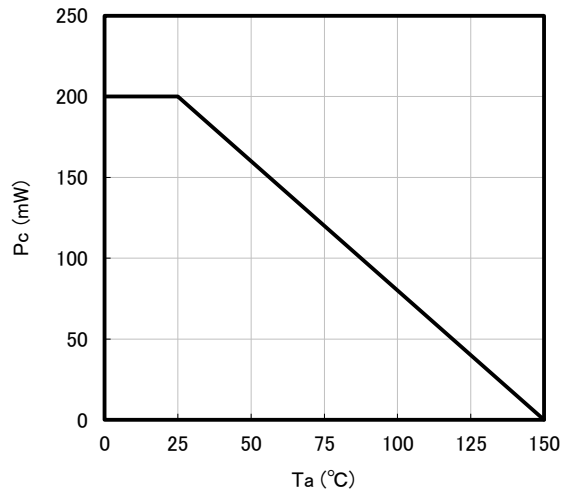
TYPICAL CHARACTERISTICS



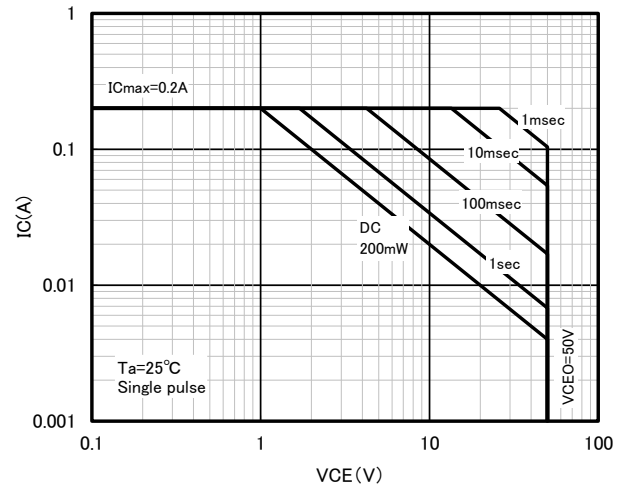
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FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

P_c - T_a



ASO



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