

2SC4155A

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE(Super mini type)

DESCRIPTION

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

FEATURE

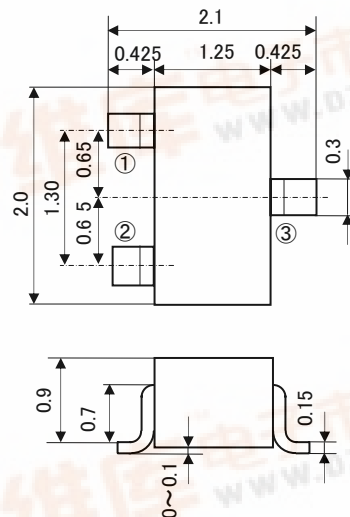
- Small collector to emitter saturation voltage.
 $V_{CE(sat)}=0.3V$ max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

For Hybrid IC, small type machine low frequency voltage
Amplify application.

OUTLINE DRAWING

Unit: mm



JEITA: SC-70

TERMINAL CONNECTER

- ①: BASE
- ②: EMITTER
- ③: COLLECTOR

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

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

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

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	$V(BR)_{CEO}$	$I_C=100\mu A, R_{BE}=\infty$	50	—	—	V
Collector cut off current	I_{CBO}	$V_{CB}=50V, I_E=0$	—	—	0.1	μA
Emitter cut off current	I_{EBO}	$V_{EB}=4V, I_C=0$	—	—	0.1	μA
DC forward current gain	h_{FE}	$V_{CE}=6V, I_C=1mA$	120	(※)	820	—
DC forward current gain	h_{FE}	$V_{CE}=6V, I_C=0.1mA$	70	—	—	—
C to E Saturation Vlotage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	—	—	0.3	V
Gain bandwidth product	fT	$V_{CE}=6V, I_E=-10mA$	—	200	—	MHz
Collector output capacitance	C_{ob}	$V_{CB}=6V, I_E=0, f=1MHz$	—	4	—	pF
Noise Figure	NF	$V_{CE}=6V, I_E=-0.1mA, f=1kHz, R_G=2k\Omega$	—	—	15	dB

※) It shows h_{FE} classification in below table.

Item	Q	R	S	T
h_{FE} Item	120~270	180~390	270~560	390~820



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