〈SMALL-SIGNAL TRANSISTOR〉

2SC4155

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC4155 is a super mini package resin sealed silicon NPN epitaxial transistor,
It is designed for low frequency voltage application.

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FEATURE

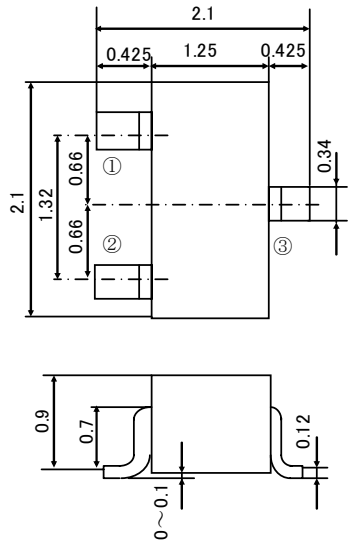
- Small collector to emitter saturation voltage.
  VCE(sat)=0.3V max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

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

OUTLINE DRAWING

Unit:mm



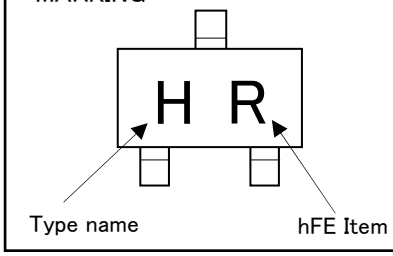
TERMINAL CONNECTER
①:BASE
②:EMITTER
③:COLLECTOR

JEITA:SC-70
JEDEC: -

MAXIMUM RATINGS(Ta=25℃)

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_C	Collector current	100	mA
P_C	Collector dissipation	200	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temperature	−55～+150	℃

MARKING



ELECTRICAL CHARACTERISTICS(Ta=25℃)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	$V(BR)_{CEO}$	I_C=100μA ,R_{BE}=∞	50	−	−	V
Collector cut off current	ICBO	V_{CB}=50V, I_E=0mA	−	−	0.5	μA
Emitter cut off current	IEBO	V_{EB}=4V, I_C=0mA	−	−	0.5	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 Vlotage	VCE(sat)	I_C=30mA ,I_B=1.5mA	−	−	0.3	V
Gain bandwidth product	fT	V_{CE}=6V, I_E=−10mA	−	200	−	MHz
Collector output capacitance	Cob	V_{CB}=6V, I_E=0mA,f=1MHz	−	2.0	−	pF

※: It shows hFE classification at right table

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

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