2SC3928A

Unit:mm

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3928A is super mini package resin sealed

silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

Complementary with ISA1530AC1.

FEATURE

• Small collector to emitter saturation voltage.

VCE(sat)=0.3V max

•Excellent linearity of DC forward gain.

•Super mini package for easy mounting

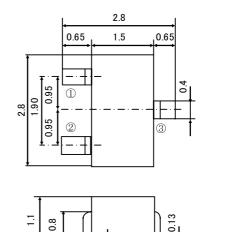
APPLICATION

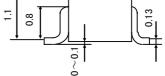
For Hybrid IC, small type machine low frequency voltage Amplify application.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Parameter Ratings	
V _{CBO}	Collector to Base voltage	50	V
V _{CEO}	Collector to Emitter voltage	50	V
V _{EBO}	Emitter to Base voltage	V	
Ι _c	Collector current	200	mA
Pc	Collector dissipation	200	mW
Tj	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)





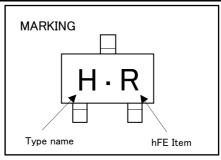
TERMINAL CONNECTER

 $\textcircled{1}:\mathsf{BASE}$ 2:EMITTER

OUTLINE DRAWING

JEITA: SC-59

3: COLLECTOR



Parameter	Symbol	Test conditions	Limits			Unit
Falameter	Symbol		Min	Тур	Max	Onic
C to E break down voltage	V(BR)CEO	IC=100 µ A,RBE=∞	50	-	-	V
Collector cut off current	Ісво	VCB=50V,IE=0		-	0.1	μA
Emitter cut off current	IEBO	VEB=4V,IC=0	-	-	0.1	μA
DC forward current gain	hFE	VCE=6V,IC=1mA	120	(※)	560	-
DC forward current gain	hFE	VCE=6V,IC=0.1mA	70	-	-	-
C to E Saturation Vlotage	VCE(sat)	IC=100mA,IB=10mA	Ι	—	0.3	V
Gain bandwidth product	fT	VCE=6V,IE=-10mA	Ι	200	-	MHz
Collector output capacitance	Cob	VCB=6V,IE=0,f=1MHz	_	4	-	pF
Noise Figure	NF	VCE=6V,IE=-0.1mA,f=1kHz,RG=2k Ω	_	_	15	dB

: It shows hFE classification at right table.

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



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