

2SC3928A

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

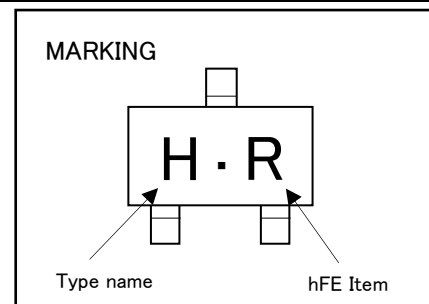
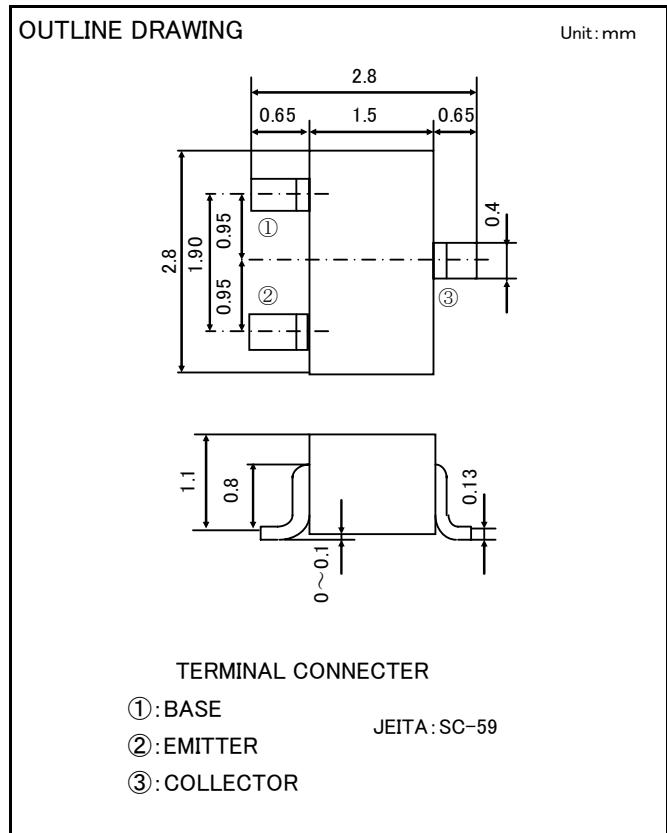
2SC3928A is super mini package resin sealed silicon NPN epitaxial transistor, It is designed for low frequency voltage application. Complementary with ISA1530AC1.

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	Ratings	Unit
V _{CB0}	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	200	mA
P _C	Collector dissipation	200	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	V(BR) _{CEO}	IC=100 μ A, RBE=∞	50	—	—	V
Collector cut off current	ICBO	VCB=50V, IE=0	—	—	0.1	μ A
Emitter cut off current	IEBO	VEB=4V, IC=0	—	—	0.1	μ A
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 Voltage	VCE(sat)	IC=100mA, IB=10mA	—	—	0.3	V
Gain bandwidth product	fT	VCE=6V, IE=-10mA	—	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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