# 2SC3928A

For Low Frequency Amplify Application Silicon NPN Epitaxial Type (Mini type)

### **DESCURIPTION**

2SC3928A is a super mini packege resin sealed silicon NPN epitaxial type transistor. It is designed for low frequency voltage amplify application.

### **FEATURE**

- Small collector to emitter saturation voltage VCE(sat)=0.3V max
- · Excellent lineality of DC forward current gain
- · Supper mini package for easy mounting

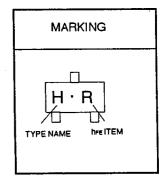
### **APPLICATION**

For hybrid IC, small type machine low frequency voltage amplify application.

# TERMINAL CONNECTOR ①: BASE ②: EMITTER ③: COLLECTOR Unit:mm Unit:mm EIAJ: SC-59 3: COLLECTOR Unit:mm

### MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	50	V
Ic	Collector current	200	mA
Pc	Collector dissipation(Ta=25°C)	200	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temprature	-55to+125	°C



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

		Test conditions	Limits			Unit
Symbol	Parameter					
			Min	Тур	Max	
V(BR)CEO	C to E break down voltage	I C=100 μ A, RBE=∞	50			V
I сво	Collector cut cff current	VcB=50V, I E=0			0.1	μΑ
I EBO	Emitter cut off current	VEB=4V, I C=0			0.1	μА
hfE *	DC forward current gain	Vce=6V, I c=1mA	120		820	
hFE	DC forward current gain	VcE=6V, I c=0.1mA	70			
VCE(sat)	C to E Saturation voltage	I c=100mA, I в=10mA			0.3	V
fr	Gain band width product	VcE=6V, I E=-10mA		200		MHz
Cob	Collector output capacitance	VcB=6V, I E=0, f=1MHz		2.5		pF
NF	Noise figure	VcE=6V, I E=-0.1mA, f=1kHz,Rg=2kΩ			15	dB

\*: It shows hee claccification in right table.

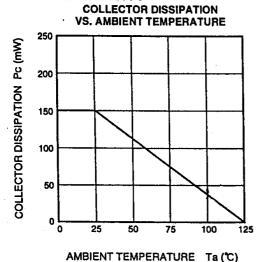
ITEM	Q	R	S	Т
hFE	120~270	180~390	270~560	390~820

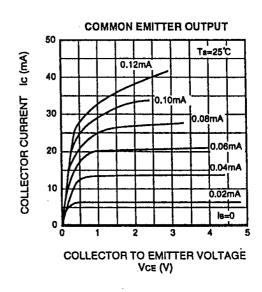
**(Transistor)** 

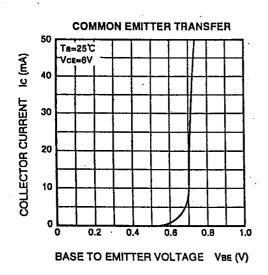
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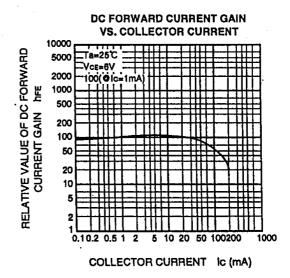
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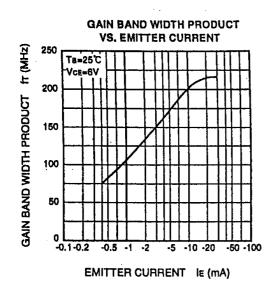
### TYPICAL CHARACTERISTICS

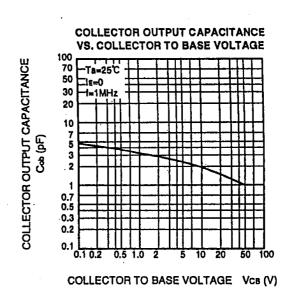














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