## FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

## **DESCRIPTION**

2SC5214 is a resin sealed silicon NPN epitaxial type transistor.

It designed with high collector current and 2 to 3.5W low frequency power amplify.

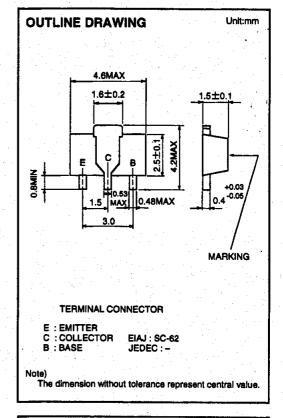
Complementary with 2SA1947.

#### **FEATURE**

- ●High ft ft=100MHz typ
- ●Excellent linearity of DC forward current gain
- ●High collector current Icм=1.5A
- Small package for mounting

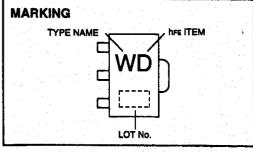
### **APPLICATION**

Radio, tape recorder, small type stereo, etc. Low frequency power amplify circuit with 2 to 3.5W output.



## MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	. 30	V
VEBO	Emitter to Base voltage	4	V
VCEO	Collector to Emitter voltage	25	V
Ісм	Peak collector current	1.5	A
lc	Collector current	. 1	A
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	r
Tetg	Storage temperature	-55 to +150	c



## ELECTRICAL CHARACTERISTICS (Ta=25°C)

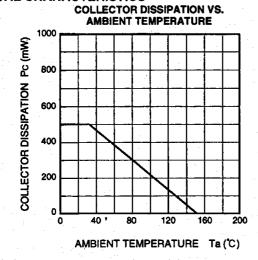
Symbol	Parameter	Test conditions		Limits		Unit	
				Min	Тур	Max	UIIK
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0		30			V
V(BR)EBO	E to B break down voltage	iε=10 μ A,ic=0		. 4			V
V(BR)CEO	C to E break down voltage	IC=100 μ A,RBE=∞		25			V
Ісво	Collector cut off current	Vce=25V,IE=0				1	μΑ
IEBO	Emitter cut off current	VBE=2V,IC=0				1	μΑ
hre +	DC forward current gain	VcE=1V,lc=500mA		55		300	
VCE(sat)	C to E saturation voltage	Ic=500mA,IB=25mA			1 :	0.5	V
fr	Gain band width product	VcE=6V.IE=-10mA			100		MHz

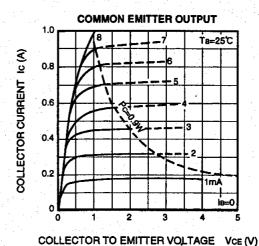
<sup>\* :</sup> It shows her classification in right table.

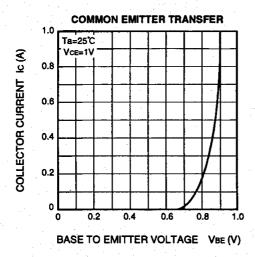
I	Marking	WC	WD	WE
	hfE	55 to 110	90 to 180	150 to 300

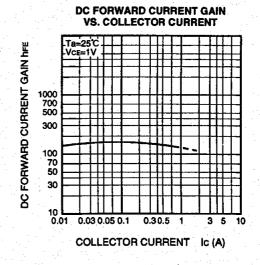
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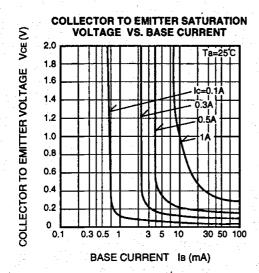
## TYPICAL CHARACTERISTICS













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