FOR HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC5212 is a resin sealed sillcon NPN epitaxial type transistor.

It designed with high collector current and small VCE(sat).

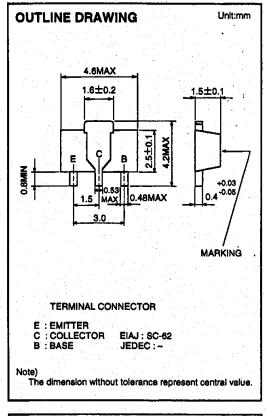
Complementary with 2SA1946.

FEATURE

- ●Low collector saturation voltage VCE(sat)=0.2V typ
- ●High fr fr=180MHz typ
- Excellent linearity of DC forward current gain
- ●High collector current icm=1A
- Small package for mounting

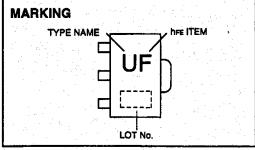
APPLICATION

For relay drive, small motor drive, power supply application.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vcво	Collector to Base voltage	25	٧
VEBO	Emitter to Base voltage	4	V
VCEO	Collector to Emitter voltage	20	V
ICM	Peak collector current	1	Α
lc	Collector current	700	mA
Pc	Collector dissipation(Ta=25°C)	500	mW
T _j	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

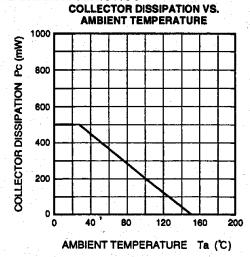
Symbol	Parameter	Test conditions		Limits		Unit
	Falameter			Тур	Max	OIII.
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	25			٧
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	4			V
V(BR)CEO	C to E break down voltage	IC=100 μ A,RBE=∞	20			V
Ісво	Collector cut off current	VcB=25V,IE=0			1	μA
IEBO	Emitter cut off current	VBE=2V,IC=0			1	μА
hfE *	DC forward current gain	VcE=4V,lc=100mA	150		800	_
VCE(sat)	C to E saturation voltage	IC=500mA,IB=25mA		0.2	0.5	V
fr	Gain band width product	Vce=6V.le=-10mA		180		MHz

^{* :} It shows her classification in right table.

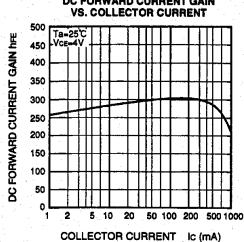
Marking	UE	UF	UG
hFE	150 to 300	250 to 500	400 to 800

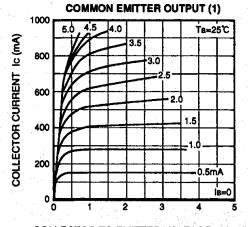
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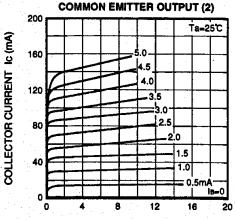
TYPICAL CHARACTERISTICS





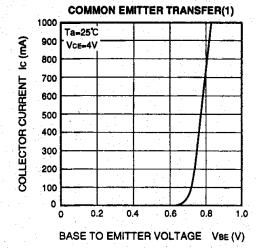




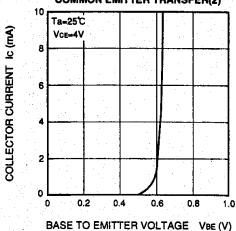


COLLECTOR TO EMITTER VOLTAGE VCE (V)

COLLECTOR TO EMITTER VOLTAGE VCE(V)



COMMON EMITTER TRANSFER(2)





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