FOR GENERAL-PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1945 is a resin sealed silicon PNP epitaxial type transistor. It is designed with high collector current and high voltage.

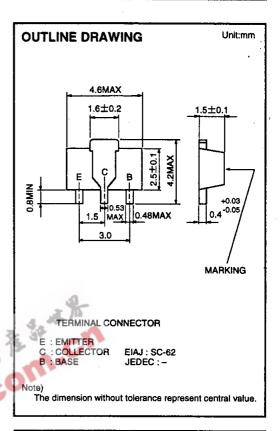
Complementary with 2SC5211.

FEATURE

- ●High voltage VcEo=-50V
- ●High ft ft=150MHz typ
- ●Excellent linearity of DC forward current gain
- ●High collector current lcm=600mA
- Small package for mounting

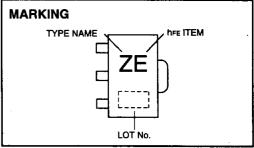
APPLICATION

For switching, small motor drive application.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	-55	٧
VEBO	Emitter to Base voltage	-4	. V
VCEO	Collector to Emitter voltage	-50	V
Ісм	Peak collector current	-600	mA
lc	Collector current	-400	mA
Pc	Collector dissipation(Ta=25℃)	500	mW
Tj	Junction temperature	+150	, c
Tstg	Storage temperature	-55 to +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

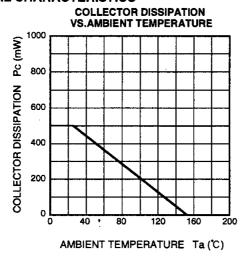
Symbol	Parameter	Test conditions	Limits			Unit
	raiameter 	Test conditions	Min	Тур	Max	Onit
V(BR)CBO	C to B break down voltage	IC=-10 μ A,IE=0	-55			V
V(BR)EBO	E to B break down voltage	IE=-10 μ A,IC=0	-4			V
V(BR)CEO	C to E break down voltage	Ic=-100 μ A,RBE=∞	-50			V
Ісво	Collector cut off current	Vcb=-25V,IE=0			-1	μΑ
lebo	Emitter cut off current	VBE=-2V,1C=0			-1	μΑ
hre *	DC forward current gain	VcE=-4V,lc=-100mA	90		500	—
VCE(sat)	C to E saturation voltage	Ic=-200mA,IB=-10mA		-0.17	-0.5	V
fr	Gain band width product	VCE=-6V,IE=-10mA		150		MHz

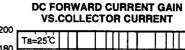
^{*:} It shows he classification in right table.

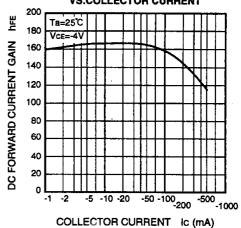
Marking	ZD	ZE	ZF
hFE	90 to 180	150 to 300	250 to 500

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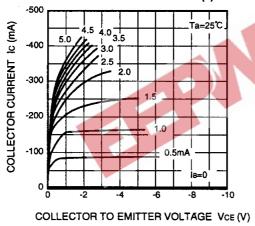
TYPICAL CHARACTERISTICS



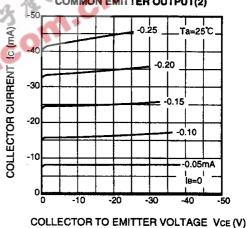




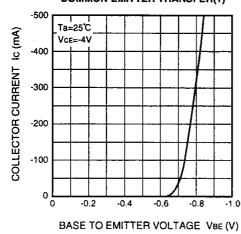




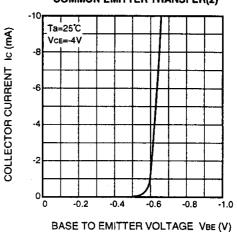
COMMON EMITTER OUTPUT(2)



COMMON EMITTER TRANSFER(1)



COMMON EMITTER TRANSFER(2)





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