FOR RELAY DRIVE POWER SUPPLY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1944 is a silicon PNP epitaxial type transistor. It is designed with high voltage, high collector current and high h $\rm FE$.

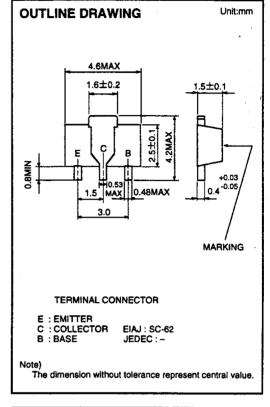
Complementary with 2SC5209.

FEATURE

- ●High voltage VcEo=-50V
- ●Low collector to emitter saturation voltage VCE(sat)=-0.2V typ (@IC=-500mA,IB=-10mA)
- ●High hFE hFE=400 to 800
- Small package for mounting

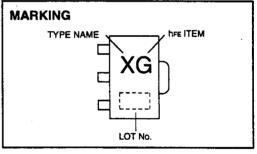
APPLICATION

Audio machine, VCR, relay drive of other electronic machine, power supply.



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
Ісм	Peak collector current	-2	Α
lc	Collector current	-1	Α
Pc	Collector dissipation(Ta=25℃)	500	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

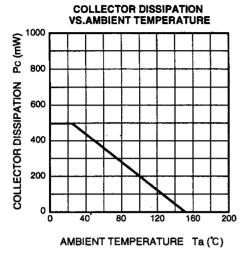
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=-10 μ A,IE=0	<i>-</i> 50			V
V(BR)EBO	E to B break down voltage	IE=-10 μ A,IC=0	-6			V
V(BR)CEO	C to E break down voltage	Ic=-1mA,RBE=∞	-50			V
Ісво	Collector cut off current	VcB=-40V,IE=0		İ	-0.1	μΑ
IEBO	Emitter cut off current	VEB=-2V,IC=0			-0.1	μΑ
hfe *	DC forward current gain	VCE=-6V,IC=-100mA	400		800	
VCE(sat)	C to E saturation voltage	lc=-500mA,lB=-10mA		-0.2	-0.5	V
fr	Gain band width product	Vce=-10V,le=-10mA		90	1	MHz
Сов	Collector output capacitance	VCB=-10V,IE=0,f=1MHz		30		pF

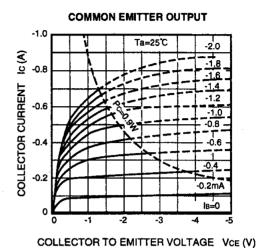
^{* :} It shows her classification in right table.

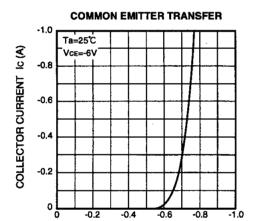
Marking	XG		
hFE	400 to 800		

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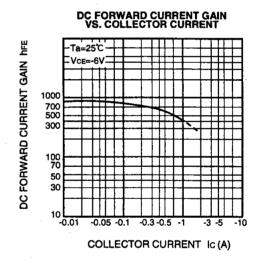
TYPICAL CHARACTERISTICS

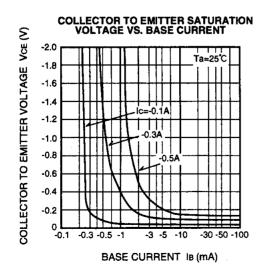


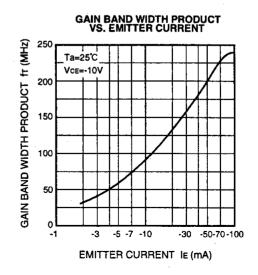




BASE TO EMITTER VOLTAGE VBE (V)

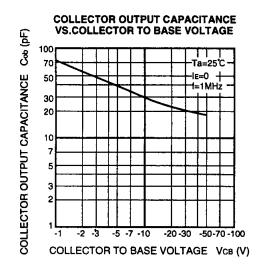






2SA1944

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