## FOR SMALL TYPE MOTOR, PLUNGER DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

#### DESCRIPTION

 $^{\circ}$  2SC3246 is a silicon NPN epitaxial type transistor. Designed with high collector current and high hee.

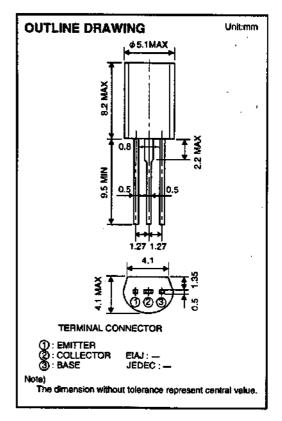
Complementary with 2SA1286.

#### **FEATURE**

- ●High hFE hFE×400 to 3000
- ●High collector current (Ic=1.5A, Icм=3A)
- ●Low collector to emitter saturation voltage VcE(sat)=0.2V typ (@Ic=1A, IB=20mA)
- ●High collector dissipation Pc=900mW

#### **APPLICATION**

VCR, tape-deck small type motor drive of player, plunger, drive of relay, power supply of ripple filter.



#### MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	30	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	25	V.
1cm	Peak Collector current	3	A
lc	Collector current	1.5	A
PC	Collector dissipation(Ta=25°C)	900	mW
Tį	Junction temperature	+150	2
Tetg	Storage temperature	-55 to +150	ਿੱ

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

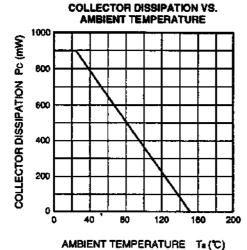
Symbol	Parameter	Test conditions	Limits			Unit
		Lost conditions	Min	Typ	Max	O INC
V(BR)C90	C to B break down voltage	IC=10 μ A,IE=0	30	<u> </u>		V
V(BR)EBO	E to B break down voltage	IE=10 μ A,iC=0	6			v
V(BR)CEO	C to E break down voltage	IC=1mA,RBE=∞	25			V
ICBO	Collector cut off current	Vcs=20V,le≠0			0.1	μА
IEBO	Emitter cut off current	VEB=2V,IC=0			0.1	μА
hre *	DC forward current gain	VcE=6V,lc=500mA	400		3000	
VCE(sat)	C to E saturation voltage	Ic=1A,le=20mA		0.2	0.5	V
fτ	Gain band width product	VcE=10V,IE=-10mA		130		MHz
Cob	Collector output capacitance	VcB=10V,IE=0,f=1MHz		17	†	pF

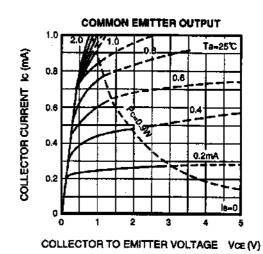
<sup>\* :</sup> It shows her classification in right table.

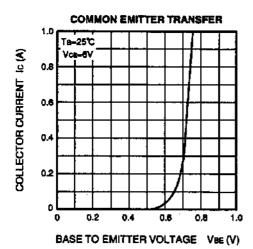
Item	G	Н	J	К
hre	400 to 800	600 to 1200	900 to 1800	1500 to 3000

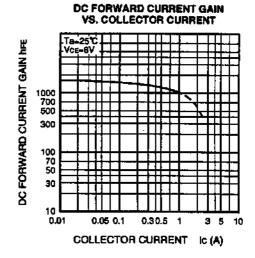
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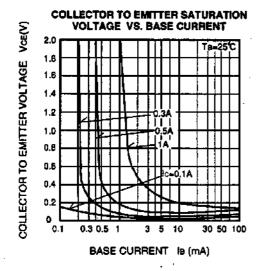


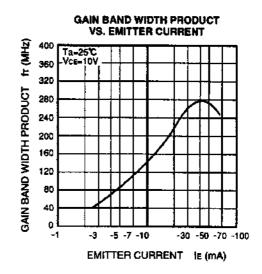




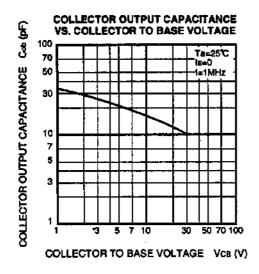








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