SMALL-SIGNAL TRANSISTOR

2SC3246

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

DESCRIPTION

¹ 2SC3246 is a silicon NPN epitaxial type transistor. Designed with high collector current and high hee.

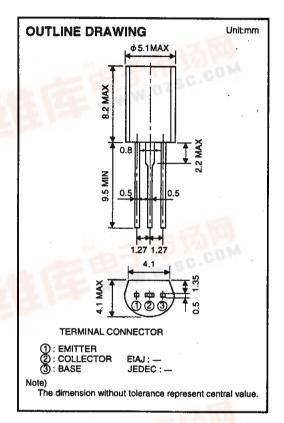
Complementary with 2SA1286.

FEATURE

- ●High hFE hFE=400 to 3000
- ●High collector current (Ic=1.5A, IcM=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°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	30	V
VEBO	Emitter to Base voltage	6	٧
VCEO	Collector to Emitter voltage	25	V.
Ісм	Peak Collector current	3	Α
Ic	Collector current	1.5	Α
Pc	Collector dissipation(Ta=25°C)	900	mW
Tj	Junction temperature	+150	℃
Tstg	Storage temperature	-55 to +150	౮

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
		Test conditions	Min	Тур	Max	Offic
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	IE=10 μ A,iC=0	6			V
V(BR)CEO	C to E break down voltage	IC=1mA,RBE=∞	25			V
Ісво	Collector cut off current	Vcs=20V,IE=0			0.1	μА
IEBO	Emitter cut off current	VEB=2V,ic=0			0.1	μΑ
hfE *	DC forward current gain	VcE=6V,lc=500mA	400		3000	
VCE(sat)	C to E saturation voltage	Ic=1A,IB=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	<u> </u>	pF

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

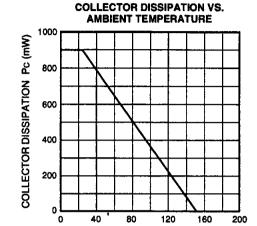
item	G	Н	j	К
hFE	400 to 800	600 to 1200	900 to 1800	1500 to 3000

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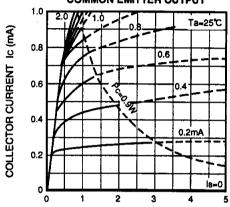
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TYPICAL CHARACTERISTICS

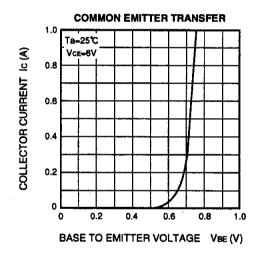


COMMON EMITTER OUTPUT

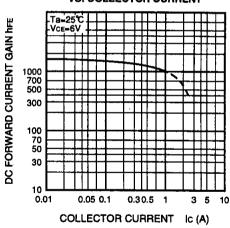


COLLECTOR TO EMITTER VOLTAGE VCE (V)

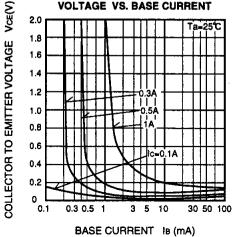
AMBIENT TEMPERATURE Ta (℃)



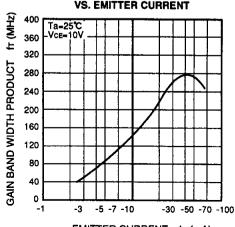








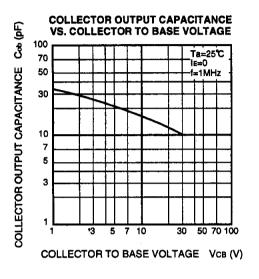
GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



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