2SC3242,2SC3242A

FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3242,2SC3242A is a silicon NPN epitaxial type transistor designed for small type motor drive, solenoid drive and power supply application.

Complementary with 2SA1282,2SA1282A.

FEATURE

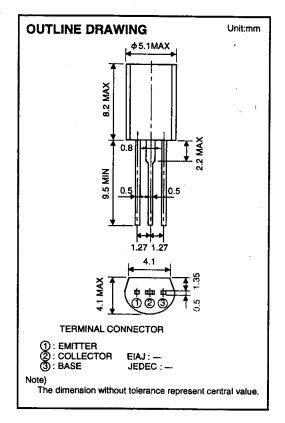
- ●High collector current Ic=2A
- ●Low VCE(sat)

VCE(sat)=0.17V typ (@Ic=1A)

- ●High hFE hFE=150 to 800
- ●High collector dissipation Pc=900mW

APPLICATION

Small type motor drive, power supply for VCR, deck, player.



MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Rat	Unit	
		2SC3242	2SC3242A	OTAL
Vсво	Collector to Base voltage	20	20	٧
VEBO	Emitter to Base voltage	6	6	٧
VCEO	Collector to Emitter voltage	16	20	٧
Ісм	Peak Collector current	3		Α
Ic	Collector current	2		Α
Pc	Collector dissipation(Ta=25°C)	900		mW
Tj	Junction temperature	+150		ొ
Tstg	Storage temperature	-55 to	ొ	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits				T		
			2SC3242		2SC3242A		Unit		
			Min	Тур	Max	Min	Тур	Max	1
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	20			20			V
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	5			6			V
V(BR)CEO	C to E break down voltage	Ic=2mA,RBE=∞	16			20			V
Ісво	Collector cut off current	VcB=16V,IE=0			0.2			0.2	ILA
EBO	Emitter cut off current	VEB=4V,IC=0			0.2			0.2	μΑ
hfe *	DC forward current gain	VcE=4V,lc=100mA	150		800	150		500	
VCE(sat)	C to E saturation voltage	Ic=1A,Is=50mA		0.17	0.3		0.17	0.3	V
fτ	Gain band width product	VcE=2V,IE=-10mA		80			80		MH
Соь	Collector output capacitance	VcB=10V,IE=0,f=1MHz		28			28		οF

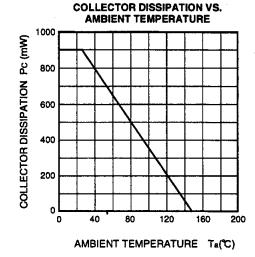
^{* :} It shows her classification in right table

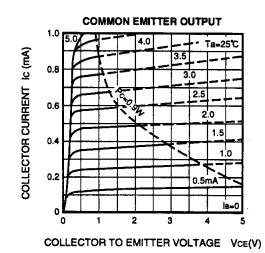
Item	Е	F	G
hFE	150 to 300	250 to 500	400 to 800

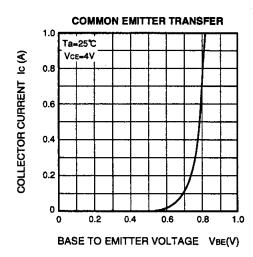
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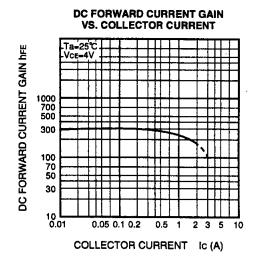
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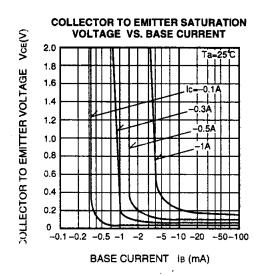
TYPICAL CHARACTERISTICS

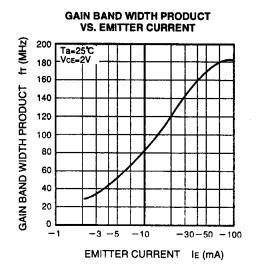






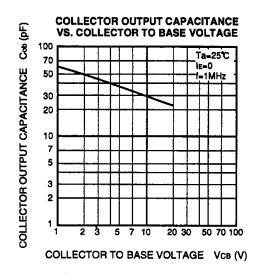






2SC3242,2SC3242A

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