# FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

### **DESCRIPTION**

2SC3243 is a silicon NPN epitaxial type transistor designed for relay drive or power supply application.

Complementary with 2SA1283.

#### **FEATURE**

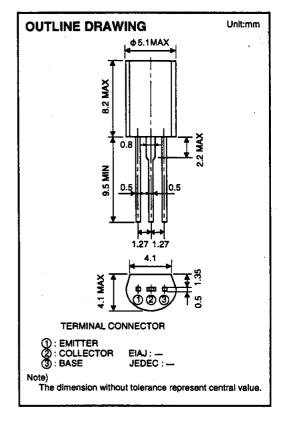
- ●High voltage VcEo=60V
- ●High collector current Ic=1A
- ●Low VCE(sat)

VcE(sat)=0.11V typ (@lc=500mA,ls=25mA)

●High collector dissipation Pc=900mW

#### **APPLICATION**

Relay drive, power supply for audio equipment, VCR.



### MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	60	V
VEBO	Emitter to Base voltage	6	٧
VCEO	Collector to Emitter voltage	60	٧
ICM	Peak Collector current	2	Α
lc	Collector current	1	A
Pc	Collector dissipation(Ta=25°C)	900	mW
T <sub>i</sub>	Junction temperature	+150	℃
Tstg	Storage temperature	-55 to +150	ొ

## ELECTRICAL CHARACTERISTICS (Ta=25℃)

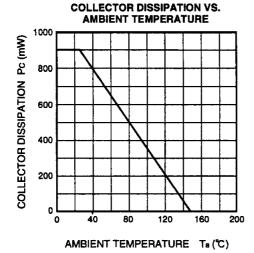
Symbol	Parameter	Test conditions		Limits		Unit
		l est conditions		Тур	Max	
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	60			٧
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	6			V
V(BR)CEO	C to E break down voltage	Ic=2mA,RBE=∞	60			V
Ісво	Collector cut off current	Vcb=50V,IE=0			0.2	μA
leso	Emitter cut off current	VEB=4V,IC=0			0.2	μΑ
hre *	DC forward current gain	VcE=4V,lc=100mA	55		300	
VCE(sa)	C to E saturation voltage	Ic=500mA,is=25mA		0.11	0.3	V
fτ	Gain band width product	Vce=2V,le=-10mA		120		MHz
Сов	Collector output capacitance	VcB=10V,IE=0,f=1MHz		14		pF

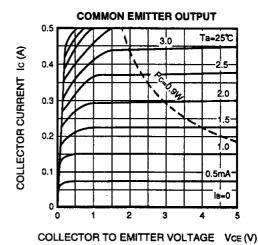
<sup>\* :</sup> It shows her classification in right table.

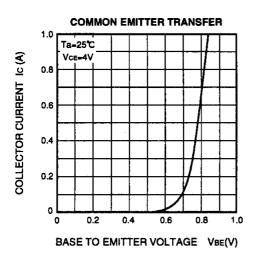
Item	С	D	E
hfe	55 to 110	90 to 180	150 to 300

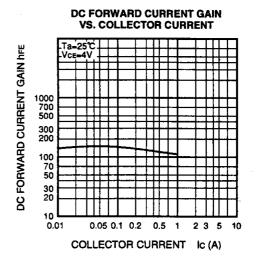
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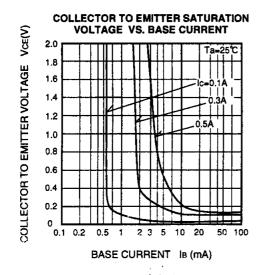
### TYPICAL CHARACTERISTICS

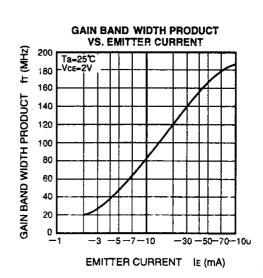




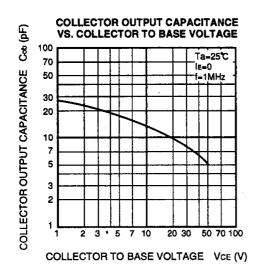








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