# FOR HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

#### **DESCRIPTION**

2SC3440 is a super mini silicon NPN epitaxial type transistor designed with high collector current, small VCE(sat).

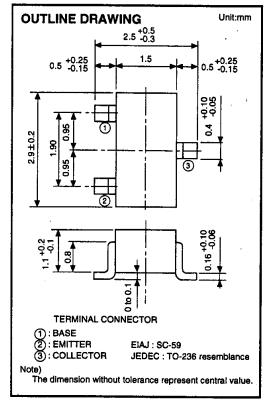
Complementary with 2SA1365.

### **FEATURE**

- ●Low collector to emitter saturation voltage VcE(sat)=0.2V typ
- ●Excellent linearity of DC forward current gain
- Super mini package for easy mounting
- ●High collector current Icm=1A
- ●High gain band width product fr=180MHz typ

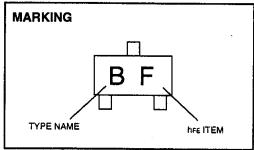
## **APPLICATION**

Small type motor drive, relay drive, power supply.



## MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	25	V
VEBO	Emitter to Base voltage	4	V
VCEO	Collector to Emitter voltage	20	V
Ісм	Peak collector current	1	A
lc	Collector current	700	mA
Pc	Collector dissipation(Ta=25°C)	150	mW
Tj	Junction temperature	+125	ొర
Tstg	Storage temperature	-55 to +125	ొ



## ELECTRICAL CHARACTERISTICS (Ta=25°C)

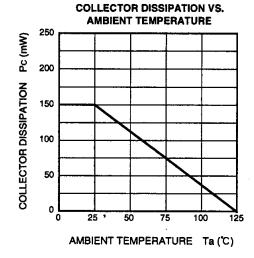
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Offic
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	25			V
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	4			V
V(BR)CEO	C to E break down voltage	IC=100 μ A,RBE=∞	20			v
Ісво	Collector cut off current	Vcs=25V,IE=0			1	μΑ
lebo	Emitter cut off current	VEB=2V,IC=0			1	μΑ
hfE +	DC forward current gain	VcE=4V,lc=100mA	150		800	_
VCE(sai)	C to E saturation voltage	lc=500mA,ls=25mA		0.2	0.5	V
fr	Gain band width product	Vce=6V,Ie=-10mA		180		MHz

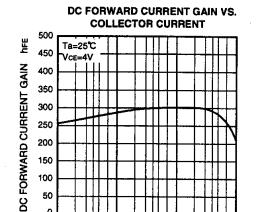
<sup>\* :</sup> It shows her classification in right table.

Marking	BE	BF	BG
hfE	150 to 300	250 to 500	400 to 800

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### **TYPICAL CHARACTERISTICS**

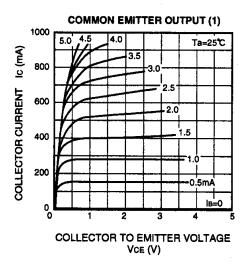


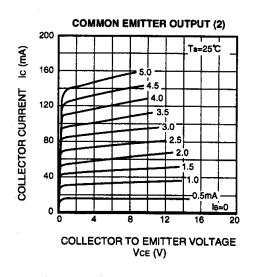


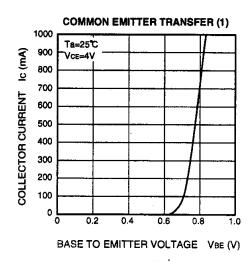
- COLLECTOR CURRENT Ic (mA)

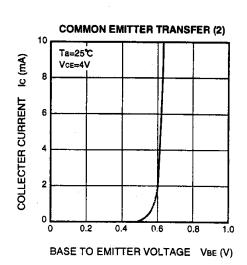
50 100 200

500 1000











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