# 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).

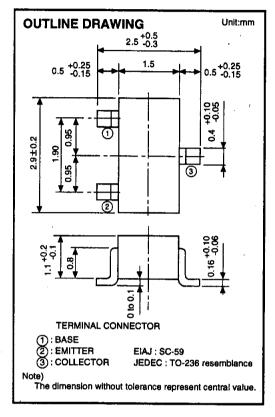
Complementary with 2SA1365.

#### **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 lcm=1A
- ●High gain band width product fr=180MHz typ

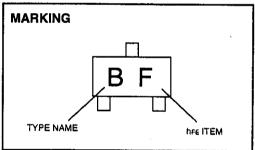
#### **APPLICATION**

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	Α
lc	Collector current	700	mA
Pc	Collector dissipation(Ta=25℃)	150	mW
Tj	Junction temperature	+125	ొ
Tstg	Storage temperature	-55 to +125	r



#### 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	VcB=25V,IE=0			1	μA
lebo	Emitter cut off current	VEB=2V,IC=0			1	μΑ
hfe +	DC forward current gain	VcE=4V,lc=100mA	150		300	
VCE(sat)	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

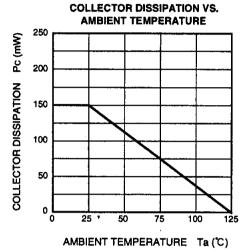
<sup>\* :</sup> It shows her classification in right table.

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

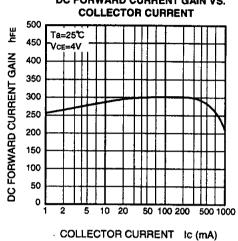
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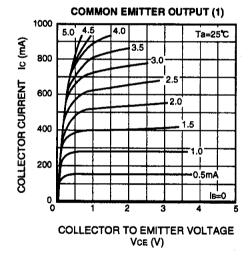
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# **TYPICAL CHARACTERISTICS**

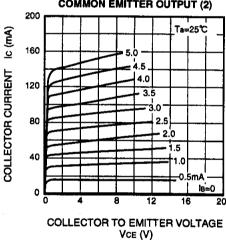


#### DC FORWARD CURRENT GAIN VS. **COLLECTOR CURRENT**

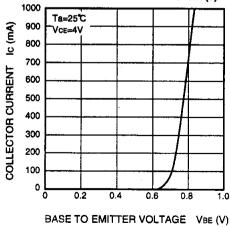




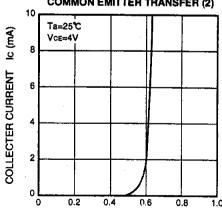
# **COMMON EMITTER OUTPUT (2)**



#### **COMMON EMITTER TRANSFER (1)**



### **COMMON EMITTER TRANSFER (2)**



# 查询"2SC3440"供应商



http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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