

(SMALL-SIGNAL TRANSISTOR)

2SC3444

FOR LOW FREQUENCY POWER AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3444 is a silicon NPN epitaxial type transistor designed for relay drive, power supply application.
Complementary with 2SA1364.

FEATURE

- High voltage $V_{CE0}=60V$
- High collector current ($I_C=1A$)
- Low collector to emitter saturation voltage
 $V_{CE(sat)}=0.11V$ typ (@ $I_C=500mA, I_B=25mA$)
- High collector dissipation $P_C=500mW$
- Small package for mounting

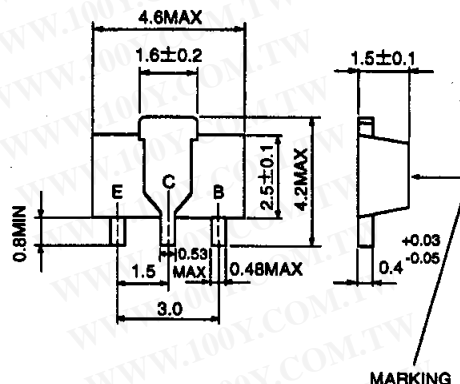
APPLICATION

Audio machine, VCR, relay drive, power supply.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

E : EMITTER
 C : COLLECTOR EIAJ : SC-62
 B : BASE JEDEC : -

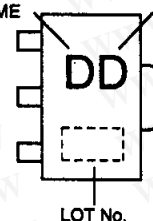
Note)
 The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Rating	Unit
V _{CB0}	Collector to Base voltage	60	V
V _{EB0}	Emitter to Base voltage	6	V
V _{CE0}	Collector to Emitter voltage	60	V
I _{CM}	Peak collector current	2	A
I _C	Collector current	1	A
P _C	Collector dissipation (Ta=25°C)	500	mW
T _J	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55 to +150	°C

MARKING

TYPE NAME hFE ITEM



ELECTRICAL CHARACTERISTICS (Ta=25°C)

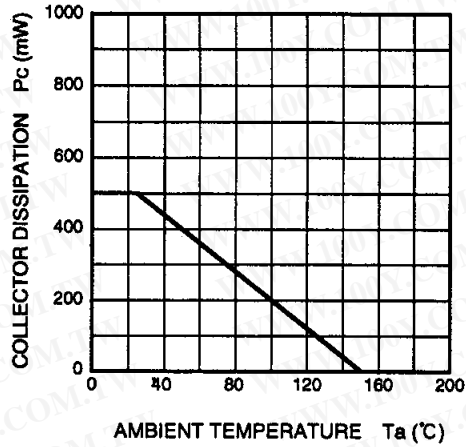
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V _{(BR)CBO}	C to B break down voltage	I _C =10 μA, I _E =0	60			V
V _{(BR)EBO}	E to B break down voltage	I _E =10 μA, I _C =0	6			V
V _{(BR)CEO}	C to E break down voltage	I _C =2mA, R _{BE} =∞	60			V
I _{CB0}	Collector cut off current	V _{CB} =50V, I _E =0			0.2	μA
I _{EB0}	Emitter cut off current	V _{EB} =4V, I _C =0			0.2	μA
h _{FE} *	DC forward current gain	V _{CE} =4V, I _C =100mA	55		300	—
V _{CE(sat)}	C to E saturation voltage	I _C =500mA, I _B =25mA		0.11	0.3	V
f _T	Gain band width product	V _{CE} =2V, I _E =-10mA		80		MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0, f=1MHz		14		pF

* : It shows h_{FE} classification in right table.

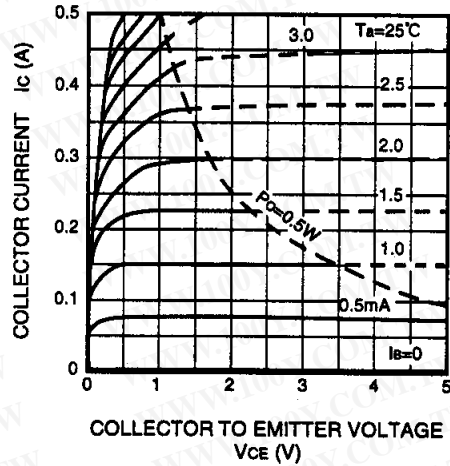
Marking	DC	DD	DE
h _{FE}	55 to 110	90 to 180	150 to 300

TYPICAL CHARACTERISTICS

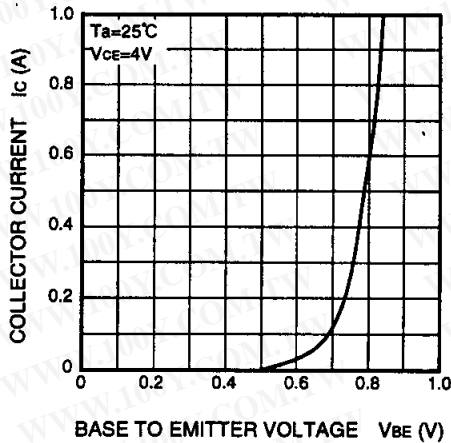
COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE



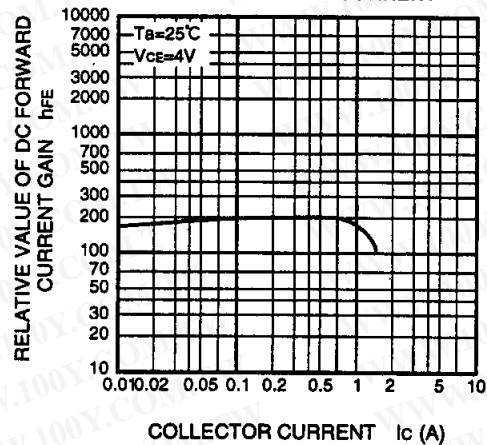
COMMON EMITTER OUTPUT



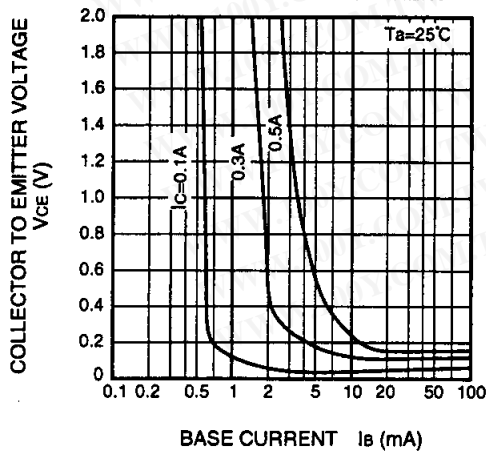
COMMON EMITTER TRANSFER



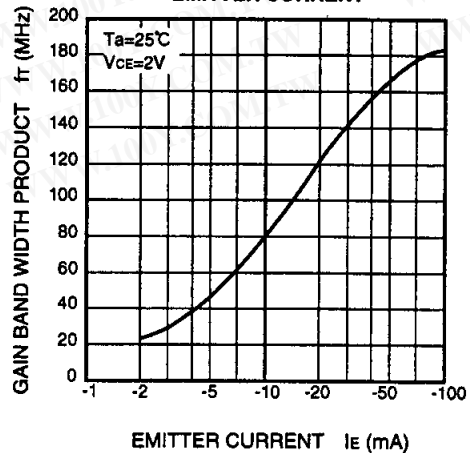
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



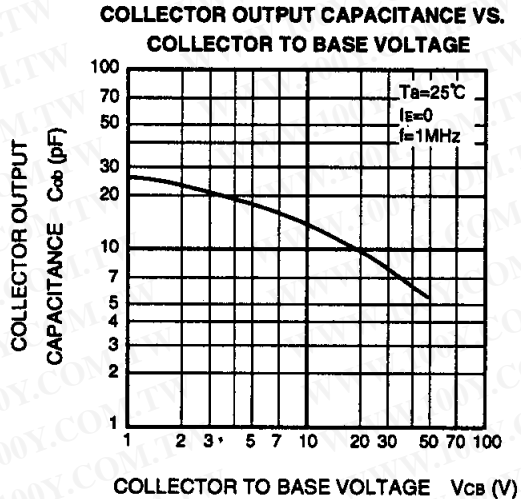
GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



(< SMALL-SIGNAL TRANSISTOR >

2SC3444

**FOR LOW FREQUENCY POWER AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE**



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)