

2SC3444

FOR HIGH FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

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

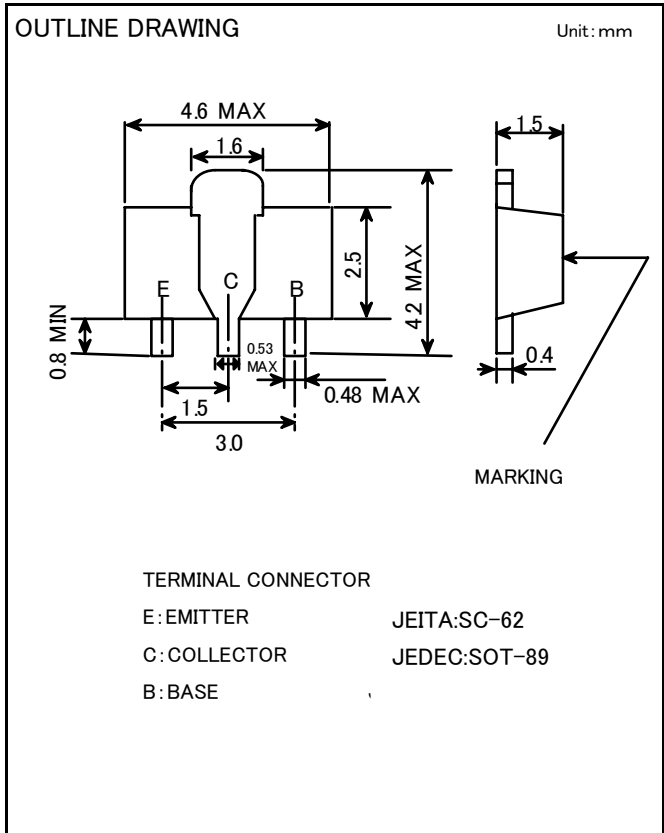
Complementary with 2SA1364.

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

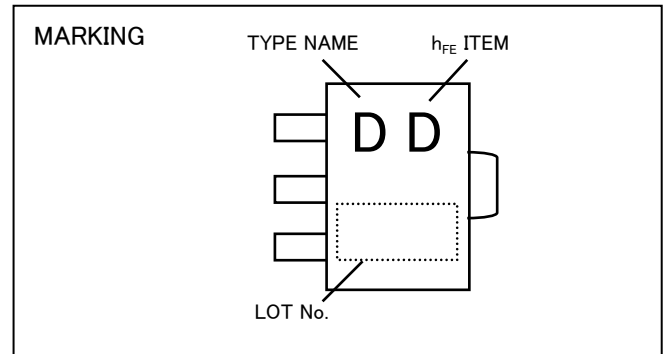
APPLICATION

Audio machine, VTR, relay drive, power supply



MAXIMUM RATINGS ($T_a=25^\circ C$)

Symbol	Parameter	Ratings	Unit
V_{CBO}	Collector to Base voltage	60	V
V_{EBO}	Emitter to Base voltage	6	V
V_{CEO}	Collector to Emitter voltage	60	V
I_C	Collector current	1	A
I_{CM}	Peak collector current	2	A
P_C	Collector dissipation	500	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$



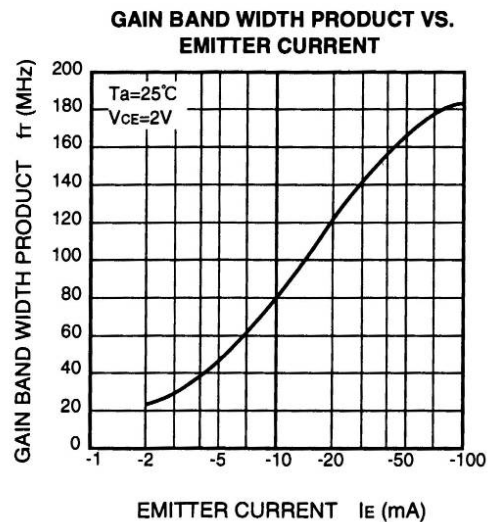
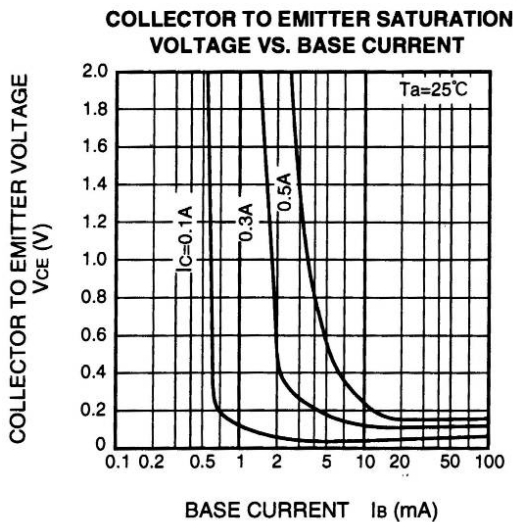
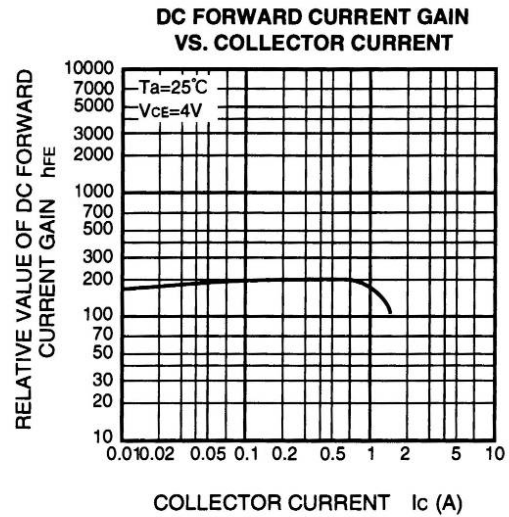
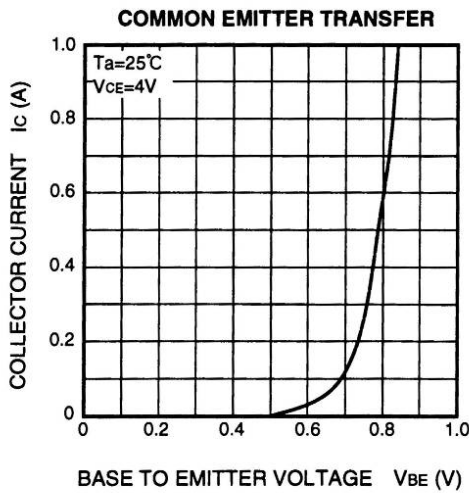
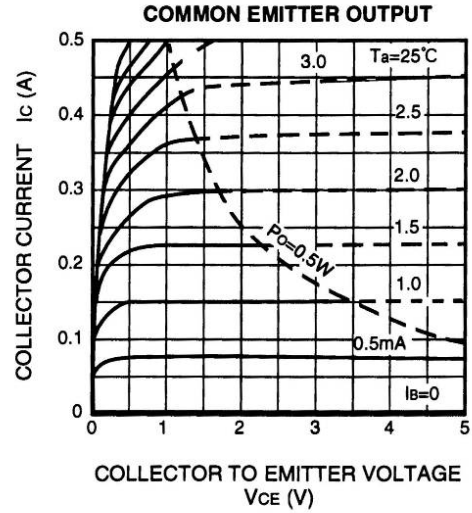
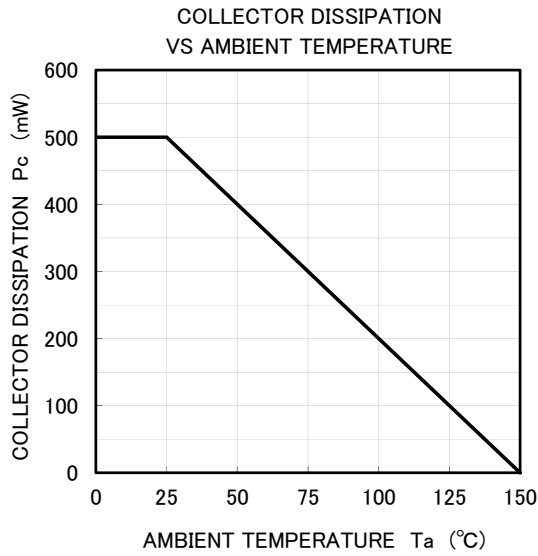
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to B break down voltage	$I_C=10 \mu A, I_E=0$	60	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=10 \mu A, I_C=0$	6	-	-	V
$V_{(BR)CEO}$	C to E break down voltage	$I_C=2mA, R_{BE}=\infty$	60	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=50V, I_E=0$	-	-	0.2	μA
I_{EBO}	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 bandwidth product	$V_{CE}=2V, I_E=-10mA$	-	80	-	MHz
Cob	Collector output capacitance	$V_{CB}=10V, I_E=0, f=1MHz$	-	14	-	pF

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

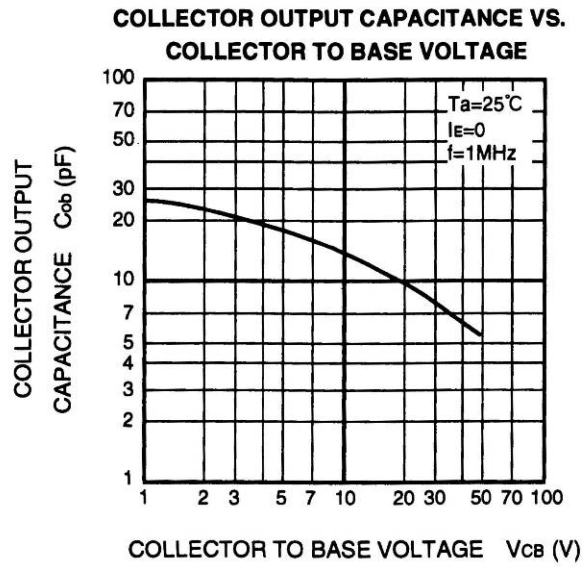
Marking	DC	DD	DE
h_{FE}	55 ~ 110	90 ~ 180	150 ~ 300

TYPICAL CHARACTERISTICS



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