

# 2SC3441

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION  
SILICON NPN EPITAXIAL TYPE

## DESCRIPTION

2SA3441 is a super mini silicon NPN epitaxial type transistor designed with high collector current, high voltage.

Complementary with 2SA1366.

## FEATURE

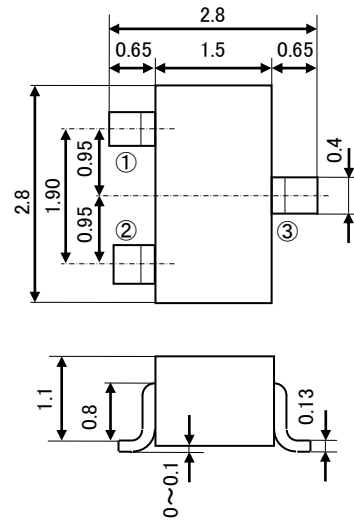
- Excellent linearity of DC forward current gain.
- High  $V_{CEO}$   $V_{CEO}=50V$
- Super mini package for easy mounting.
- High collector current  $I_{CM}=600mA$
- High gain band width product  $f_T=150MHz$  typ

## APPLICATION

For switching, small type motor application

## OUTLINE DRAWING

Unit: mm



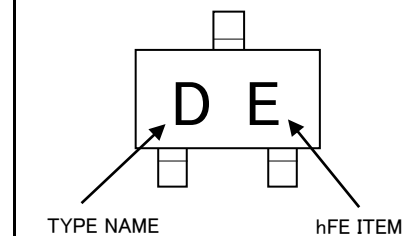
### TERMINAL CONNECTOR

- ①: BASE JEITA: SC-59
- ②: EMITTER JEDEC: Similar to TO-236
- ③: COLLECTOR

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

Parameter	Symbol	Ratings	Unit
Collector to Base voltage	$V_{CBO}$	55	V
Emitter to Base voltage	$V_{EBO}$	4	V
Collector to Emitter voltage	$V_{CEO}$	50	V
Collector current	$I_C$	400	mA
Peak Collector current	$I_{CM}$	600	mA
Collector dissipation	$P_C$	200	mW
Junction temperature	$T_j$	+150	$^\circ C$
Storage temperature	$T_{stg}$	-55 ~ +150	$^\circ C$

## MARKING



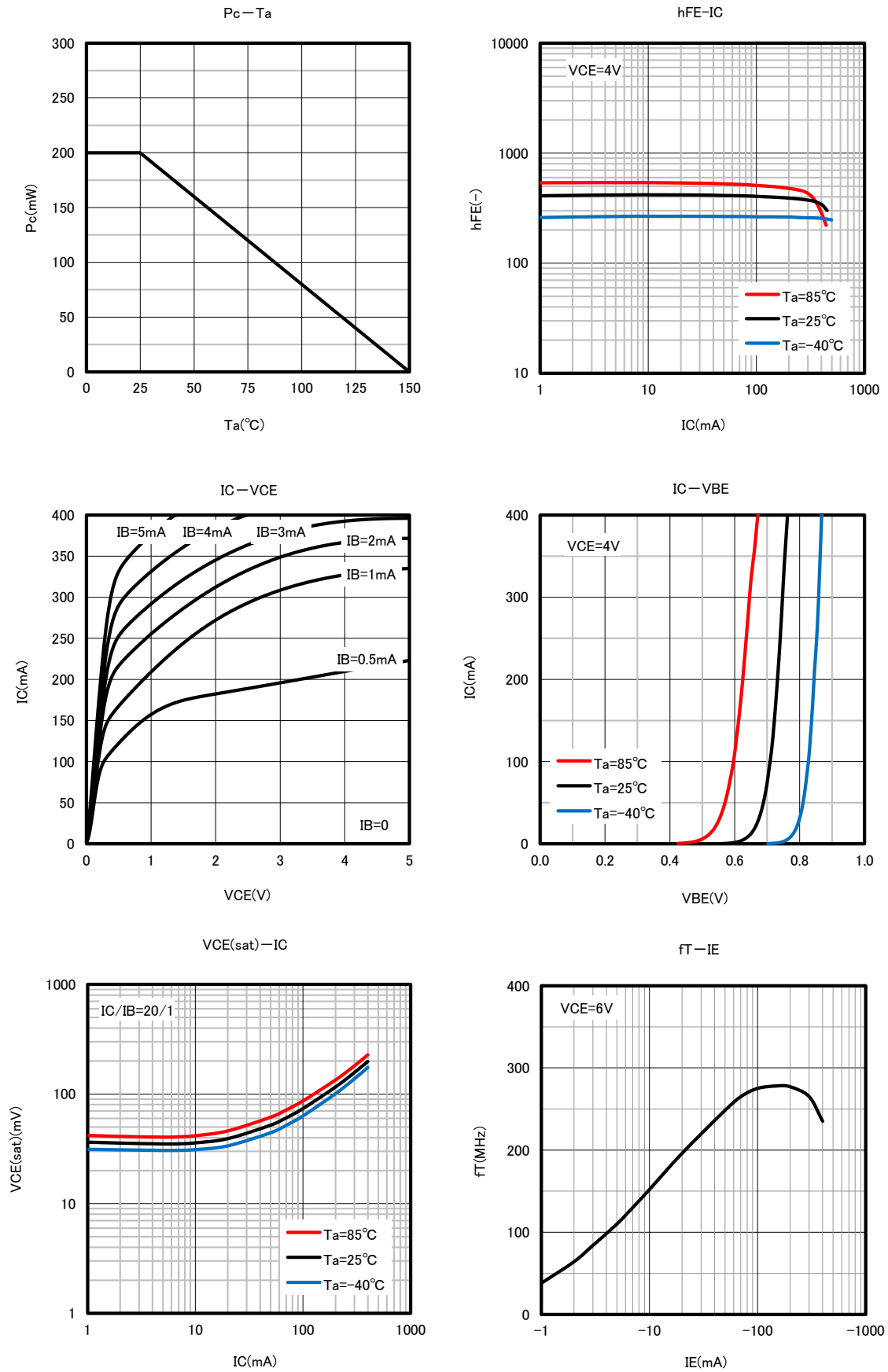
## ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B breakdown voltage	$V_{(BR)CBO}$	$I_C=10 \mu A, I_E=0$	55	-	-	V
E to B breakdown voltage	$V_{(BR)EBO}$	$I_E=10 \mu A, I_C=0$	4	-	-	V
C to E breakdown voltage	$V_{(BR)CEO}$	$I_C=100 \mu A, R_{BE}=\infty$	50	-	-	V
Collector cut off current	$I_{CBO}$	$V_{CB}=25V, I_E=0$	-	-	0.5	$\mu A$
Emitter cut off current	$I_{EBO}$	$V_{EB}=2V, I_C=0$	-	-	0.5	$\mu A$
DC forward current gain	$h_{FE}$	$V_{CE}=4V, I_C=100mA$	90	-	500	-
C to E saturation voltage	$V_{CE(sat)}$	$I_C=200mA, I_B=10mA$	-	0.15	0.5	V
Gain band width product	$f_T$	$V_{CE}=6V, I_E=-10mA$	-	150	-	MHz

※) It shows  $h_{FE}$  classification in below table

ITEM	D	E	F
$h_{FE}$	90 to 180	150 to 300	250 to 500

TYPICAL CHARACTERISTICS



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**Keep safety first in your circuit designs!**

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