

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

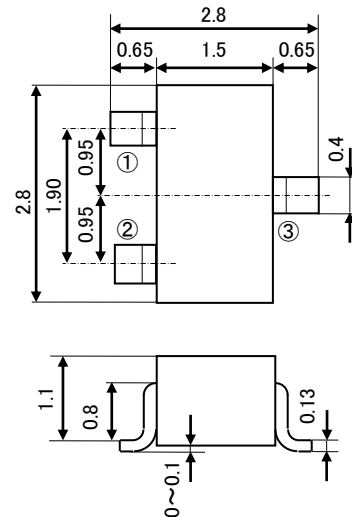
- Super mini package for mounting.
- High voltage $V_{CEO}=50V$
- High collector current $I_{CM}=600mA$
- Excellent linearity of DC forward current gain.
- High gain band width product $f_T=150MHz$ typ

APPLICATION

For switching, small type motor application

OUTLINE DRAWING

Unit: mm

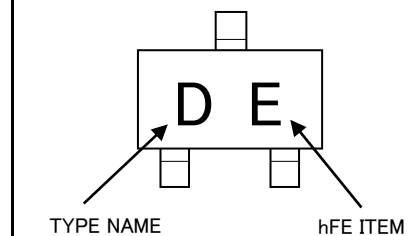


- Terminal Connector JEITA:SC-59
 JEDEC: Similar to TO-236
- ①: Base
 ②: Emitter
 ③: Collector

MAXIMUM RATINGS (Ta=25°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	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

MARKING



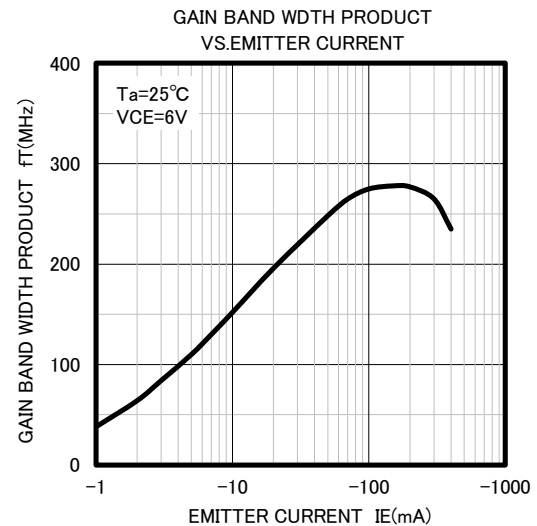
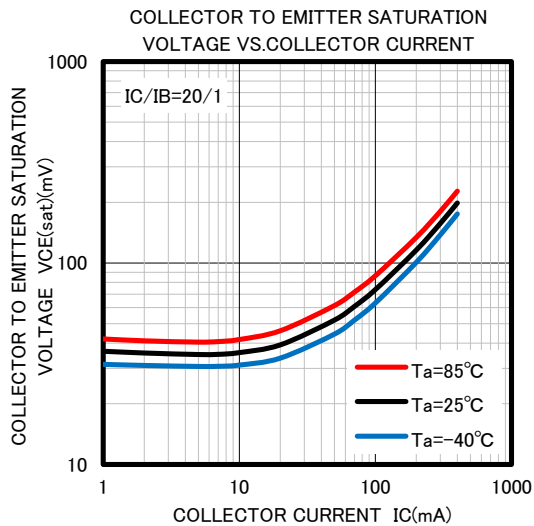
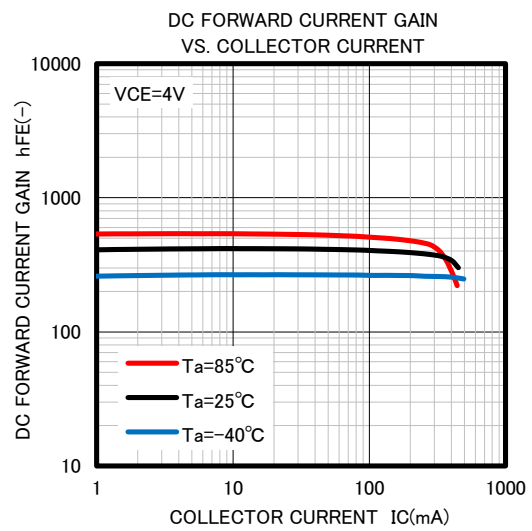
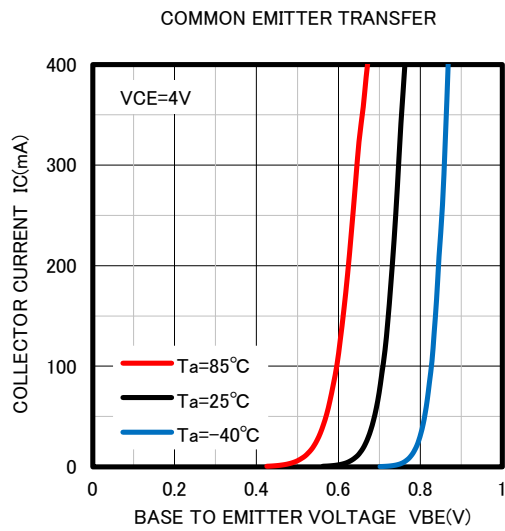
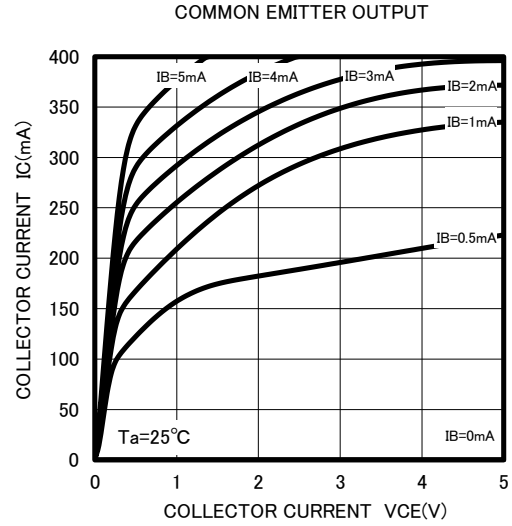
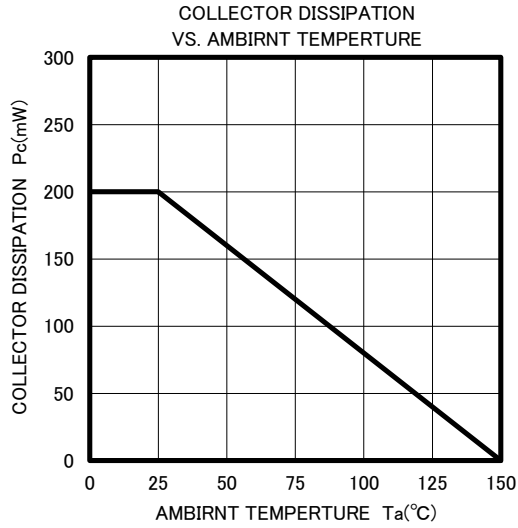
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B breakdown voltage	$V_{(BR)CBO}$	$I_C=10 \mu A, I_E=0mA$	55	-	-	V
E to B breakdown voltage	$V_{(BR)EBO}$	$I_E=10 \mu A, I_C=0mA$	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}	$V_{CB}=25V, I_E=0mA$	-	-	0.5	μA
Emitter cut off current	I_{EBO}	$V_{EB}=2V, I_C=0mA$	-	-	0.5	μA
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 at right table.

Item	D	E	F
h_{FE}	90~180	150~300	250~500

TYPICAL CHARACTERISTICS



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