

**DESCRIPTION**

2SA1366 is a super mini silicon PNP epitaxial type transistor designed with high collector current, high voltage.

Complementary with 2SC3441.

**FEATURE**

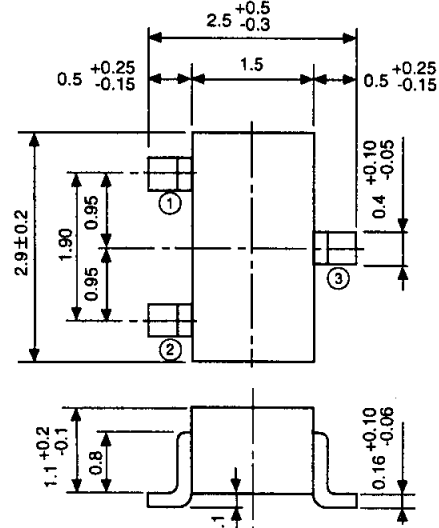
- High  $V_{CE0}$   $V_{CE0}=50V$
- Excellent linearity of DC forward current gain
- Super mini package for easy mounting
- High collector current  $I_{CM}=-600mA$
- High gain band width product  $f_T=150MHz$  typ

**APPLICATION**

For switching small type motor drive application.

**OUTLINE DRAWING**

Unit:mm



**TERMINAL CONNECTOR**

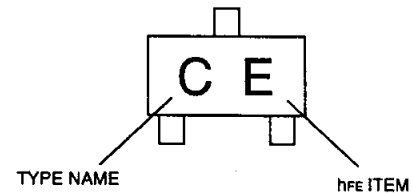
- ① : BASE
  - ② : EMITTER
  - ③ : COLLECTOR
- EIAJ : SC-59  
JEDEC : TO-236 resemblance

Note) The dimension without tolerance represent central value.

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

Symbol	Parameter	Ratings	Unit
$V_{CBO}$	Collector to Base voltage	-55	V
$V_{EBO}$	Emitter to Base voltage	-4	V
$V_{CEO}$	Collector to Emitter voltage	-50	V
$I_{CM}$	Peak Collector current	-600	mA
$I_C$	Collector current	-400	mA
$P_C$	Collector dissipation( $T_a=25^\circ C$ )	150	mW
$T_j$	Junction temperature	+125	$^\circ C$
$T_{stg}$	Storage temperature	-55 to +125	$^\circ C$

**MARKING**



**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	$I_C=-10 \mu A, I_E=0$	-55			V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=-10 \mu A, I_C=0$	-4			V
$V_{(BR)CEO}$	C to E break down voltage	$I_C=-100 \mu A, R_{BE}=\infty$	-50			V
$I_{CBO}$	Collector cut off current	$V_{CB}=-25V, I_E=0$			-1	$\mu A$
$I_{EBO}$	Emitter cut off current	$V_{EB}=-2V, I_C=0$			-1	$\mu A$
hFE *	DC forward current gain	$V_{CE}=-4V, I_C=-100mA$	90		500	—
$V_{CE(sat)}$	C to E saturation voltage	$I_C=-200mA, I_B=-10mA$		-0.17	-0.5	V
$f_T$	Gain band width product	$V_{CE}=-6V, I_E=10mA$		150		MHz

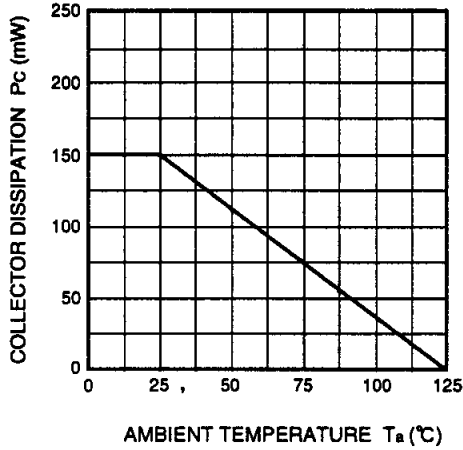
\* : It shows hFE classification in right table.

Marking	CD	CE	CF
hFE	90 to 180	150 to 300	250 to 500

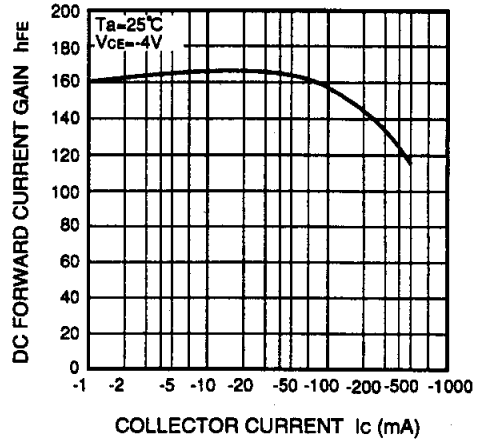
FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION  
SILICON PNP EPITAXIAL TYPE

TYPICAL CHARACTERISTICS

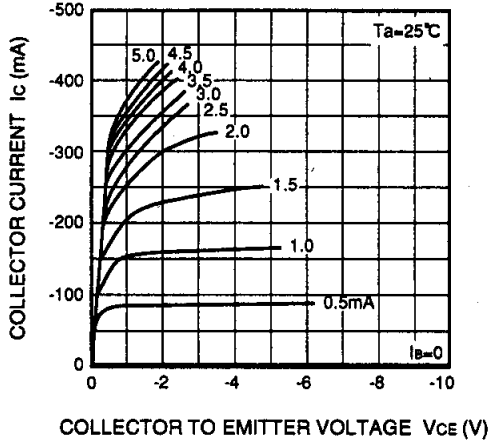
COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE



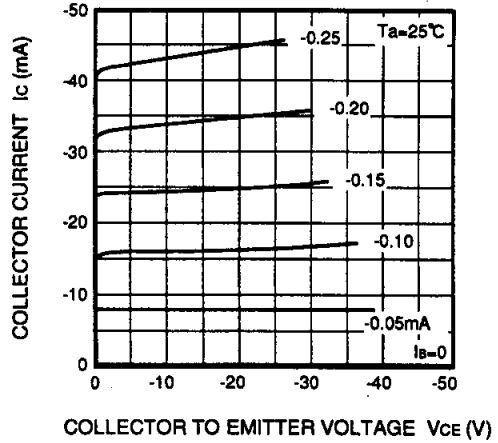
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



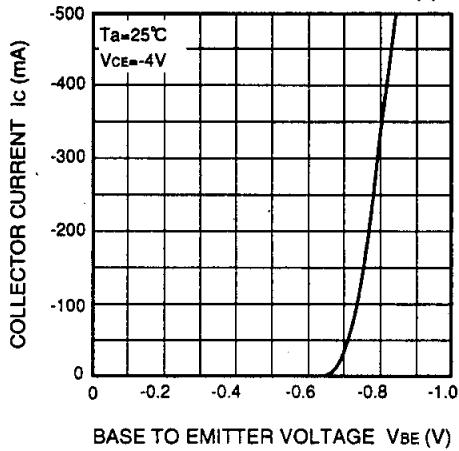
COMMON EMITTER OUTPUT (1)



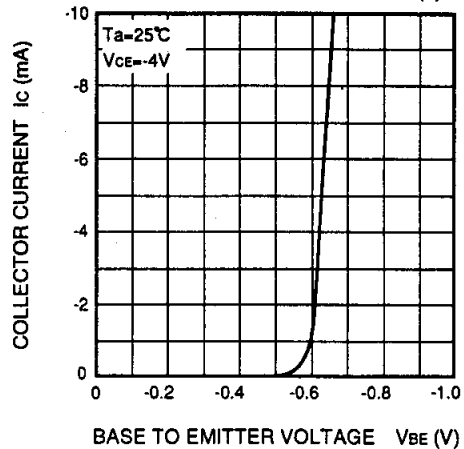
COMMON EMITTER OUTPUT (2)



COMMON EMITTER TRANSFER (1)



COMMON EMITTER TRANSFER (2)



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