

DESCRIPTION

2SA1365 is a super mini silicon PNP epitaxial type transistor designed with high collector current, small $V_{CE(sat)}$.
Complementary with 2SC3440.

FEATURE

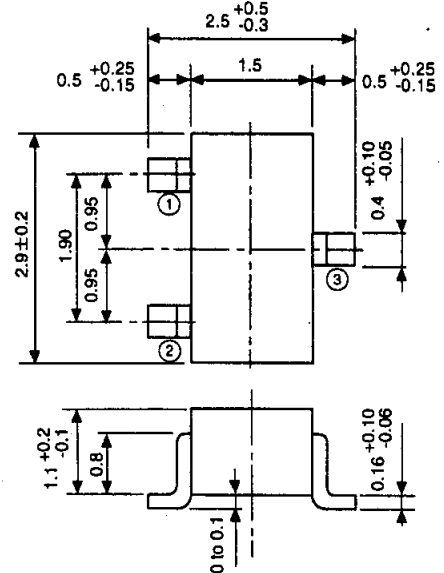
- Low collector to emitter saturation voltage
 $V_{CE(sat)} = -0.2V$ typ
- Excellent linearity of DC forward current gain
- Super mini package for easy mounting
- High collector current $I_{CM} = -1A$
- High gain band width product $f_T = 180MHz$ typ

APPLICATION

Small type motor drive, relay drive, power supply.

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

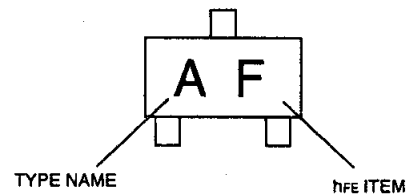
- ① : BASE
 - ② : EMITTER
 - ③ : COLLECTOR
- EIAJ : SC-59
JEDEC : TO-236 resemblance

Note)
The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vcbo	Collector to Base voltage	-25	V
Vebo	Emitter to Base voltage	-4	V
Vceo	Collector to Emitter voltage	-20	V
ICM	Peak Collector current	-1	A
Ic	Collector current	-700	mA
Pc	Collector dissipation (Ta=25°C)	150	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55 to +125	°C

MARKING



ELECTRICAL CHARACTERISTICS (Ta=25°C)

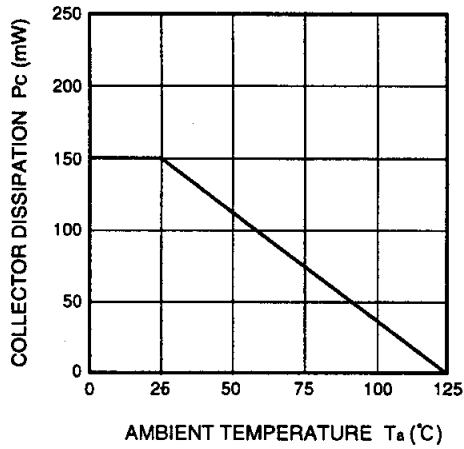
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CBO	C to B break down voltage	Ic=-10 μA, IE=0	-25			V
V(BR)EBO	E to B break down voltage	IE=-10 μA, IC=0	-4			V
V(BR)CEO	C to E break down voltage	Ic=-100 μA, RBE=∞	-20			V
ICBO	Collector cut off current	Vcb=-25V, IE=0			-1	μA
IEBO	Emitter cut off current	VEB=-2V, IC=0			-1	μA
hFE *	DC forward current gain	VCE=-4V, IC=-100mA	150		800	—
VCE(sat)	C to E saturation voltage	Ic=-500mA, IB=-25mA		-0.2	-0.5	V
fT	Gain band width product	VCE=-6V, IE=10mA		180		MHz

* : It shows hFE classification in right table.

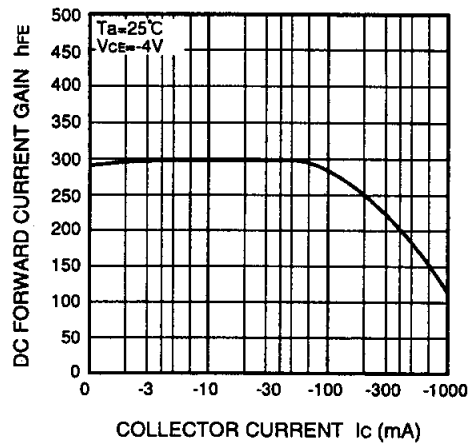
Marking	AE	AF	AG
hFE	150 to 300	250 to 500	400 to 800

TYPICAL CHARACTERISTICS

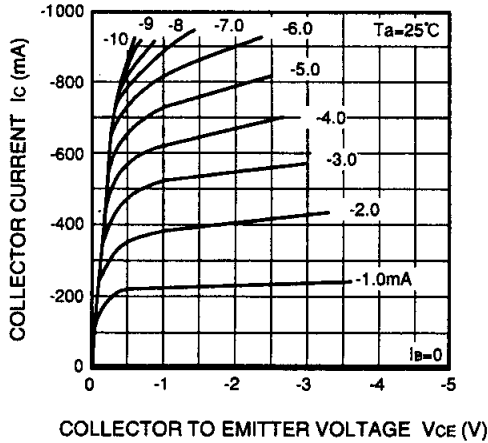
COLLECTOR DISSIPATION VS.
AMBIENT TEMPERATURE



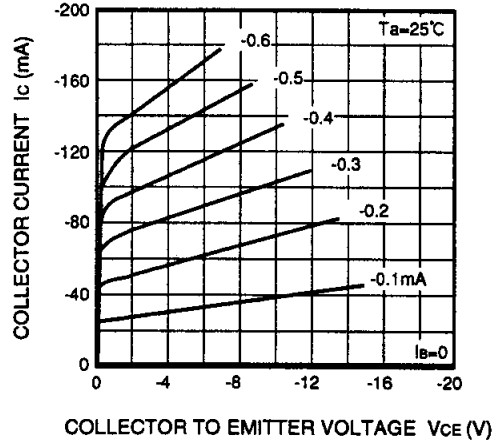
DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT



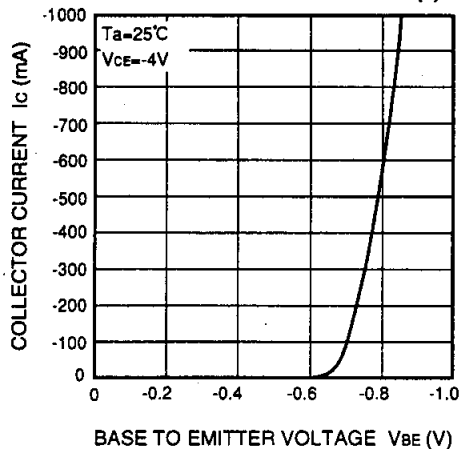
COMMON EMITTER OUTPUT (1)



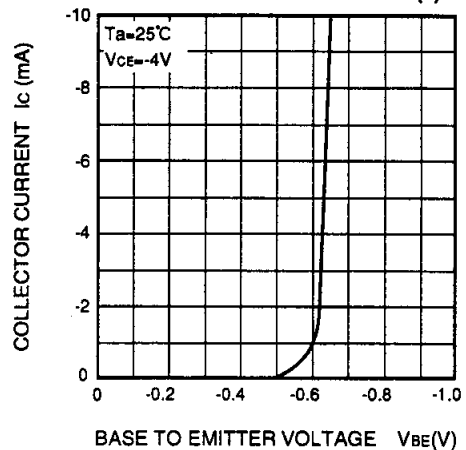
COMMON EMITTER OUTPUT (2)



COMMON EMITTER TRANSFER (1)



COMMON EMITTER TRANSFER(2)



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