

DESCRIPTION

2SA1363 is a silicon PNP epitaxial type transistor designed with high collector current and high collector dissipation.

Complementary with 2SC3443.

FEATURE

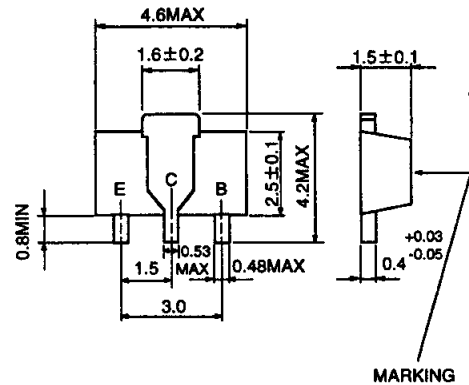
- High h_{FE} $h_{FE}=150$ to 800
- High collector current ($I_C=-2A$)
- Small collector to emitter saturation voltage
 $V_{CE(sat)}=-0.17V$ typ(@ $I_C=-1A$)
- High collector dissipation $P_C=500mW$
- Small package for mounting

APPLICATION

Small type motor drive for VCR, deck, player, power supply, etc.

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

E : EMITTER
C : COLLECTOR EIAJ : SC-62
B : BASE JEDEC : -

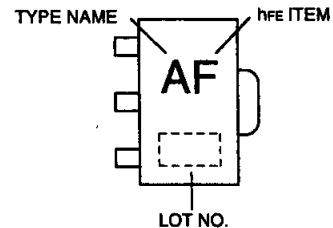
Note)

The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V_{CBO}	Collector to Base voltage	-20	V
V_{EBO}	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-16	V
I_{CM}	Peak Collector current	-3	A
I_C	Collector current	-2	A
P_C	Collector dissipation (Ta=25°C)	500	mW
T_j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 to +150	°C

MARKING



ELECTRICAL CHARACTERISTICS (Ta=25°C)

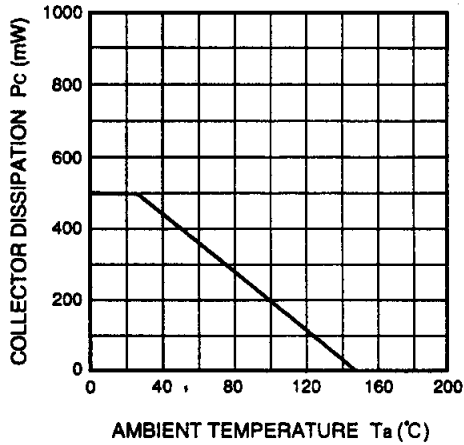
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to B break down voltage	$I_C=-10\mu A, I_E=0$	-20			V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=-10\mu A, I_C=0$	-6			V
$V_{(BR)CEO}$	C to E break down voltage	$I_C=-2mA, R_{BE}=\infty$	-16			V
I_{CBO}	Collector cut off current	$V_{CB}=-16V, I_E=0$			-0.2	μA
I_{EBO}	Emitter cut off current	$V_{EB}=-4V, I_C=0$			-0.2	μA
$h_{FE} *$	DC forward current gain	$V_{CE}=-4V, I_C=100mA$	150		800	—
$V_{CE(sat)}$	C to E saturation voltage	$I_C=-1A, I_E=-50mA$		-0.17	-0.3	V
f_T	Gain band width product	$V_{CE}=-2V, I_E=10mA$		80		MHz
C_{ob}	Collector output capacitance	$V_{CB}=-10V, I_E=0, f=1MHz$		42		pF

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

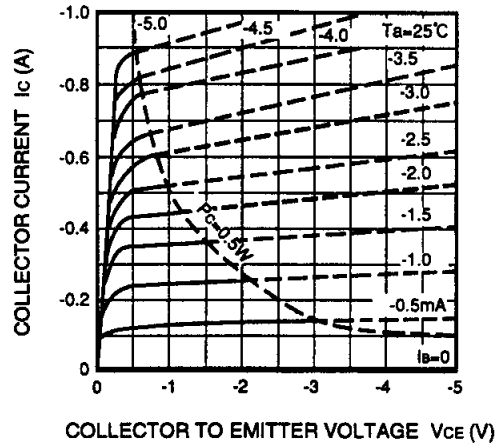
Marking	AE	AF	AG
h_{FE}	150 to 300	250 to 500	400 to 800

TYPICAL CHARACTERISTICS

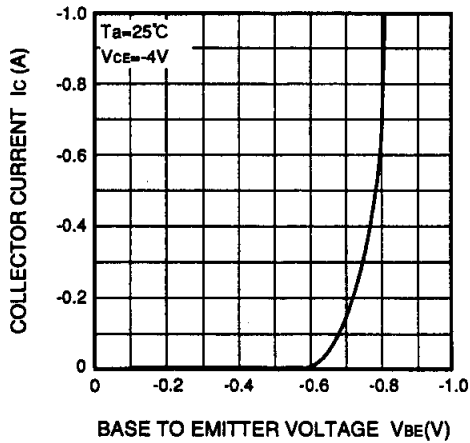
**COLLECTOR DISSIPATION VS.
AMBIENT TEMPERATURE**



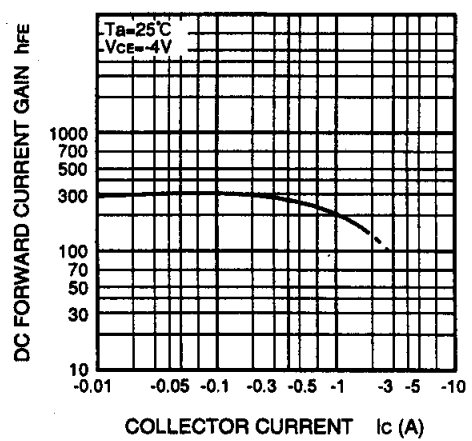
COMMON EMITTER OUTPUT



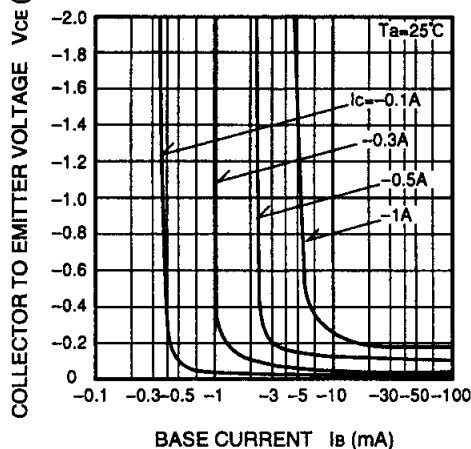
COMMON EMITTER TRANSFER



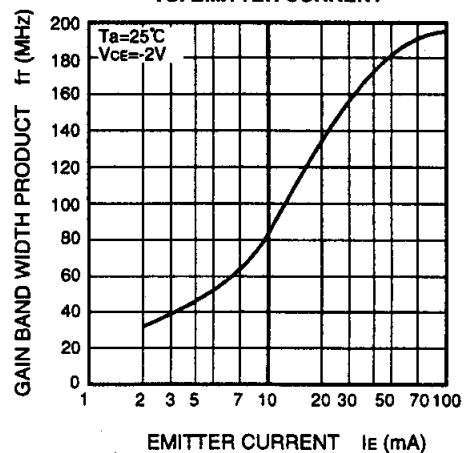
**DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT**

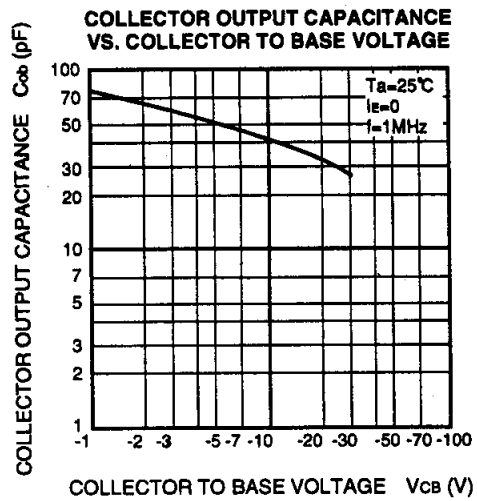


**COLLECTOR TO EMITTER SATURATION
VOLTAGE VS. BASE CURRENT**



**GAIN BAND WIDTH PRODUCT
VS. EMITTER CURRENT**







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