#### (SMALL-SIGNAL TRANSISTOR)

# 2SA1365

### FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

#### DESCRIPTION

2SA1365 is a super mini silicon PNP epitaxial type transistor designed with high collector current, small VCE(set).

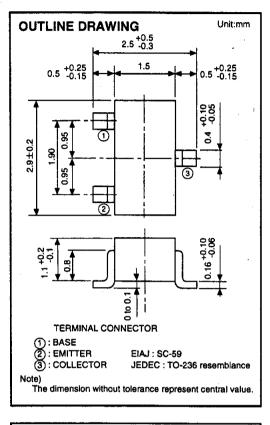
Complementary with 2SC3440.

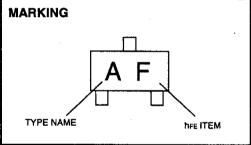
### FEATURE

- Low collector to emitter saturation voltage VCE(sat)=-0.2V typ
- Excellent linearity of DC forward current gain
- Super mini package for easy mounting
- ●High collector current ICM=-1A
- High gain band width product fr=180MHz typ

#### APPLICATION

Small type motor drive, relay drive, power supply.





# MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter Ratings		Unit		
Vсво	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		
lc	Collector current	-700	mA		
Pc	Collector dissipation(Ta=25℃)	150	mW		
Tj	Junction temperature	+125	<u> </u>		
Tstg	Storage temperature	-55 to +125	Ϋ́		

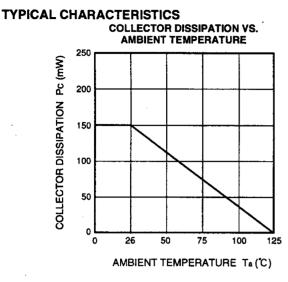
# ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits			Unit	
Symbol				Min	Тур	Max	Unit	
V(BR)CBO	C to B break down voltage	Ic=-10 μ A,IE=0			-25			V
V(BR)EBO	E to B break down voltage	IE=-10 μ A,IC=0			-4			V
V(BR)CEO	C to E break down voltage	Ic=-100 μ A,RBE=∞			-20			V
Ісво	Collector cut off current	Vcb=-25V,IE=0					-1	μA
IEBO	Emitter cut off current	VEB=-2V,IC=0					-1	μA
h⊧e ∗	DC forward current gain	Vce=-4V,lc=-100mA			150		800	
VCE(sat)	C to E saturation voltage	Ic=-500mA,IB=-25mA				-0.2	-0.5	V
tt.	Gain band width product	VCE=-6V,IE=10mA				180		MHz
: It shows here classification in right table.			Marking	AE		AF		AG
			hre	150 to	300	250 to 500	400	to 800

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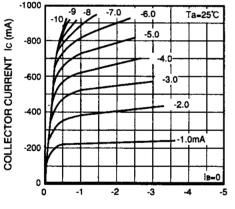
2SA1365

## FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE



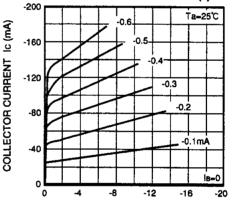
**DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT** 500 Ta=25 벁 450 DC FORWARD CURRENT GAIN 400 350 300 250 200 150 100 50 0 0 .2 -10 -30 -100 -300 -1000 COLLECTOR CURRENT IC (mA)

**COMMON EMITTER OUTPUT (1)** 

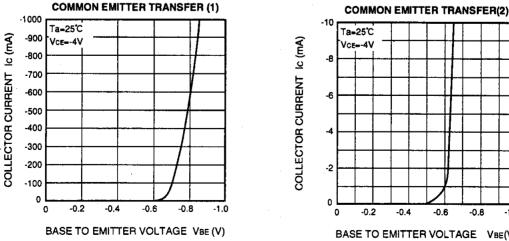


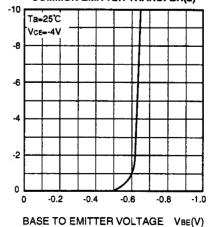
COLLECTOR TO EMITTER VOLTAGE VCE (V)

**COMMON EMITTER OUTPUT (2)** 



COLLECTOR TO EMITTER VOLTAGE VCE (V)





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