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

### **DESCRIPTION**

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

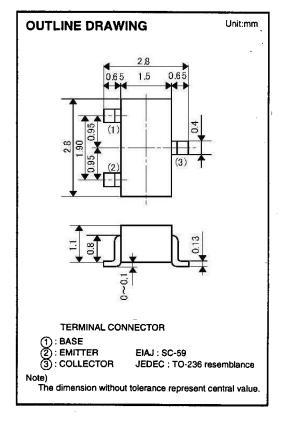
Complementary with 2SC3441.

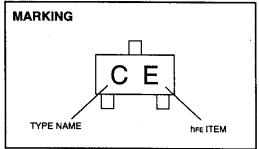
### **FEATURE**

- ●High VCEO VCEO=50V
- Excellent linearity of DC forward current gain
- Super mini package for easy mounting
- ●High collector current lcm=-600mA
- ●High gain band width product fr=150MHz typ

### **APPLICATION**

For switching small type motor drive application.





### MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	-55	V
VEBO	Emitter to Base voltage	-4	V
VCEO	Collector to Emitter voltage	-50	V
Ісм	Peak Collector current	-600	mA
lc	Collector current	-400	mA
Pc	Collector dissipation(Ta=25°C)	150	mW
Tj	Junction temperature	+125	Ψ
Tstg	Storage temperature	-55 to +125	₹

### ELECTRICAL CHARACTERISTICS (Ta=25℃)

Symbol	Parameter	Test conditions		Limits		
	1 4 4 1 1 1 1 1	rest conditions		Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=-10 μ A,IE=0	-55			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=∞	-50			V
Ісво	Collector cut off current	VcB=-25V,IE=0			-1	μΑ
IEBO	Emitter cut off current	VEB=-2V,IC=0			-1	μΑ
hfE *	DC forward current gain	VcE=-4V,lc=-100mA	90	1	500	1 —
VCE(sat)	C to E saturation voltage	Ic=-200mA,iB=-10mA		-0.17	-0.5	V
fτ	Gain band width product	Vce=-6V,Ie=10mA		150		MHz

<sup>\* :</sup> It shows her classification in right table.

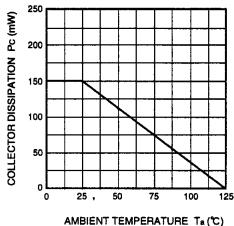
Marking	CD	CE	CF
hFE	90 to180	150 to 300	250 to 500

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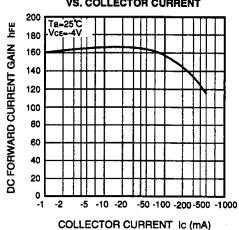
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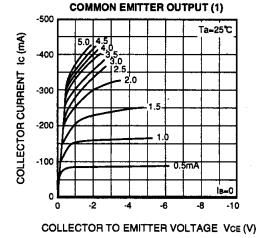
### TYPICAL CHARACTERISTICS

# COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE

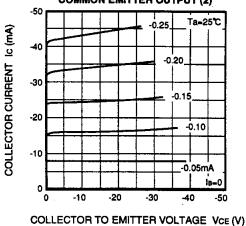


## DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT

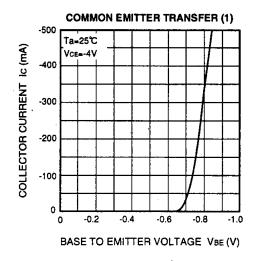




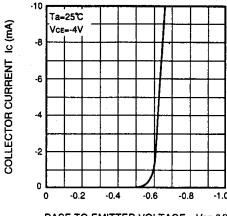
### COMMON EMITTER OUTPUT (2)



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### **COMMON EMITTER TRANSFER (2)**



BASE TO EMITTER VOLTAGE VBE (V)



http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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