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.

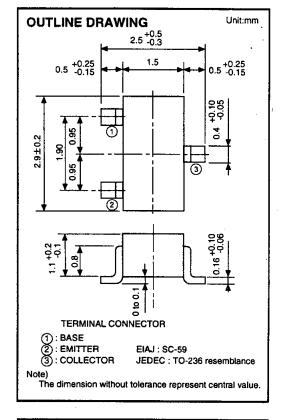
Complementary with 2SC3441.

FEATURE

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

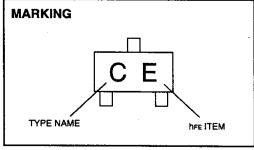
APPLICATION

For switching small type motor drive application.



MAXIMUM RATINGS (Ta=25℃)

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℃)	150	mW
Tj	Junction temperature	+125	ొ
Tstg	Storage temperature	-55 to +125	ొర



ELECTRICAL CHARACTERISTICS (Ta=25℃)

Symbol	Parameter	Test conditions		Limits		
		1 est conditions	Min	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		500	
VCE(sat)	C to E saturation voltage	ic=-200mA,iв=-10mA		-0.17	-0.5	V
fτ	Gain band width product	Vce=-6V,le=10mA		150		MHz

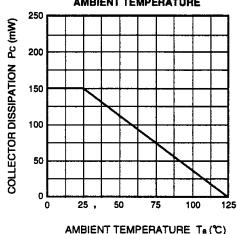
^{* :} It shows her classification in right table.

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

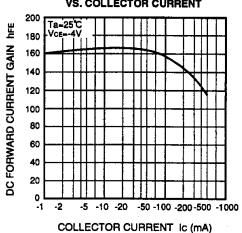
FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

TYPICAL CHARACTERISTICS

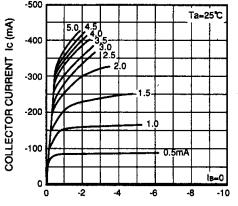
COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE

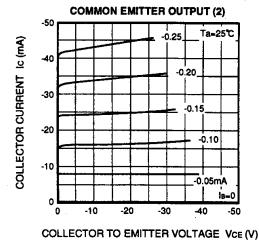


DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



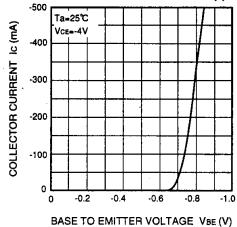
COMMON EMITTER OUTPUT (1) -500



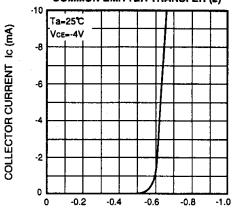


COLLECTOR TO EMITTER VOLTAGE VCE (V)

COMMON EMITTER TRANSFER (1)



COMMON EMITTER TRANSFER (2)



BASE TO EMITTER VOLTAGE VBE (V)



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