SMALL-SIGNAL TRANSISTOR

2SA1399

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1399 is a silicon PNP epitaxial type transistor designed with high

collector current, high voltage.

Complementary with 2SC3581.

FEATURE

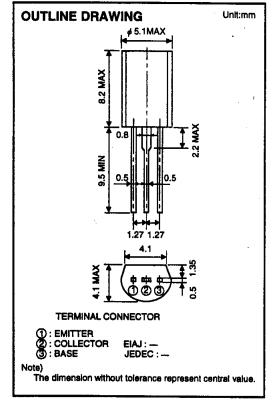
High collector current icm=600mA

- •High gain band width product fT=150MHz typ
- High VCEO VCEO=50V

Excellent linearity of DC forward current gain

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	
ICM	Peak Collector current -600		mA	
lc	Collector current	-400	mA	
Pc	Collector dissipation(Ta=25°C)	900.	mW	
Tj	Junction temperature	+150	Ĵ	
Tstg	Storage temperature	-55 to +150	Ĵ	

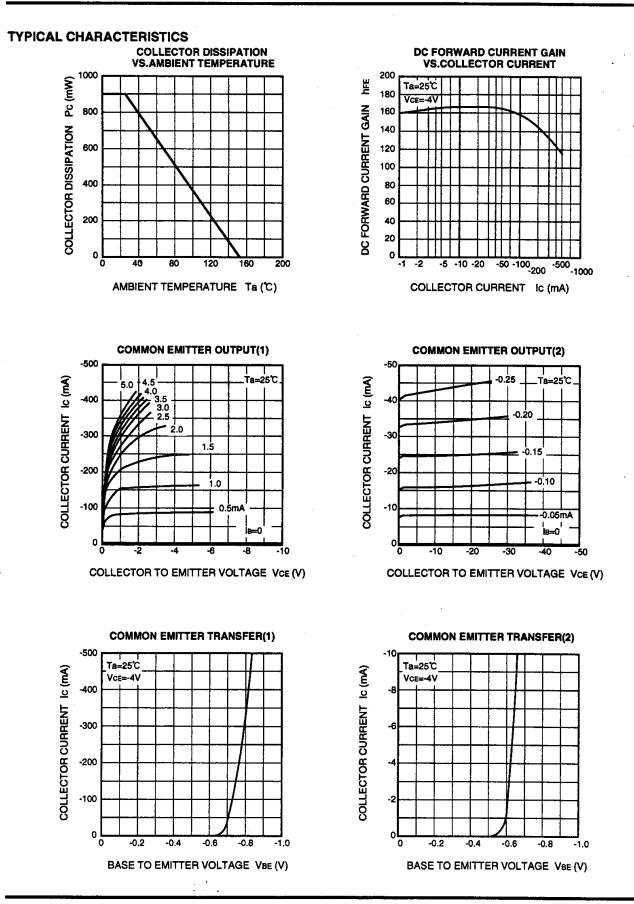
ELECTRICAL CHARACTERISTICS (Ta=25℃)

Symbol	Parameter	Test conditions			Limits		11-14
- Syntool				Mir		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			T v
V(BR)CEO	C to E break down voltage	Ic=-100 µ A,R8E=∞		-50			Γ V
Ісво	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		90		500	<u> </u>
VCE(sat)	C to E saturation voltage	Ic=-200mA,IB=-10mA			-0.17	-0.5	V
fr	Gain band width product	VCE=-6V,IE=10mA			150		MHz
: It shows I	FE classification in right table.						
			Item	D	E		F
			hfe	90 to 180	150 to 30	0 25	0 to 500

ISAHAYA ELECTRONICS CORPORATION

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