

2SA1369

FOR SMALL TYPE MOTOR, PLUNGER DRIVE APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

2SA1369 is a silicon PNP epitaxial type transistor designed with high collector dissipation and high collector current, high hFE.

Complementary with 2SC3439.

FEATURE

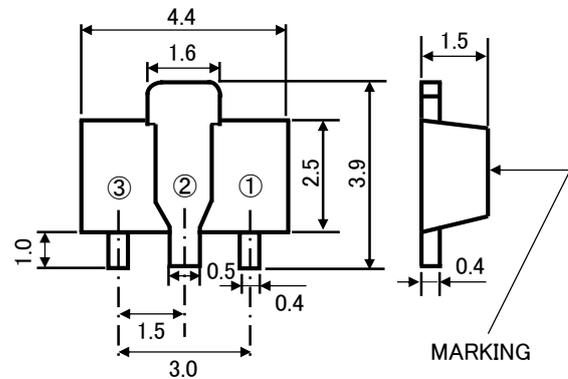
- High hFE hFE=400~800
- High collector current IC=-1.5A, ICM=-3A
- Small collector to emitter saturation voltage
VCE(sat)=-0.25V type (@IC=-1A/IB=-20mA)
- High collector dissipation PC=500mW
- Small package for easy mounting

APPLICATION

Small type motor drive for VTR, tape deck, player, drive for relay

OUTLINE DRAWING

UNIT:mm



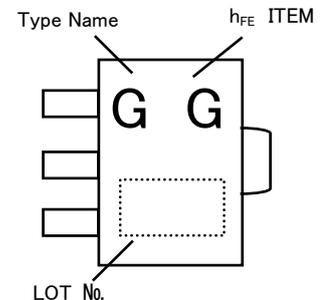
TERMINAL CONNECTOR

- ①: BASE JEITA: SC-62
- ②: COLLECTOR JEDEC: SOT-89
- ③: EMITTER

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	-30	V
V _{EBO}	Emitter to Base voltage	-6	V
V _{CEO}	Collector to Emitter voltage	-20	V
I _C	Collector current	-1.5	A
I _{CM}	Peak collector current	-3	A
P _C	Collector dissipation(Ta=25°C)	500	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

MARKING



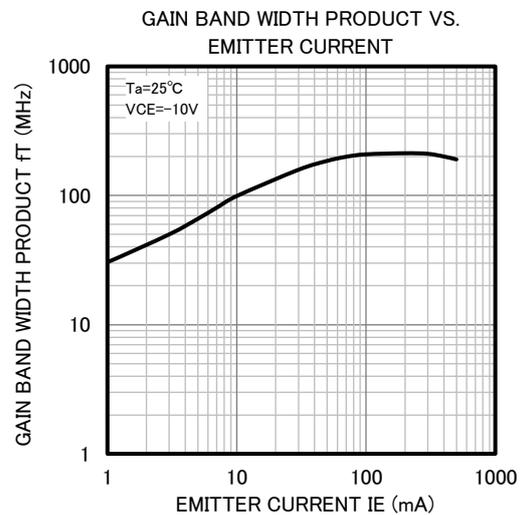
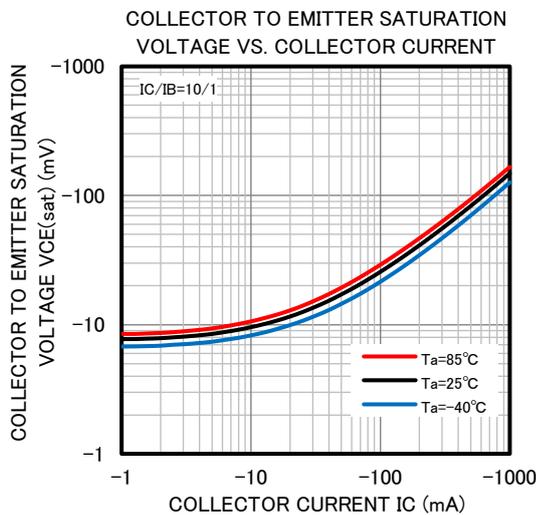
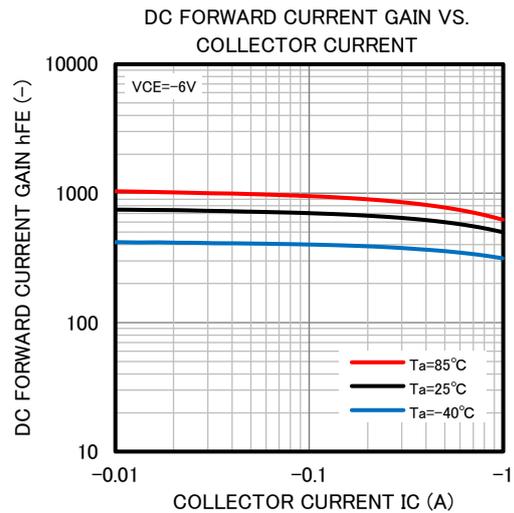
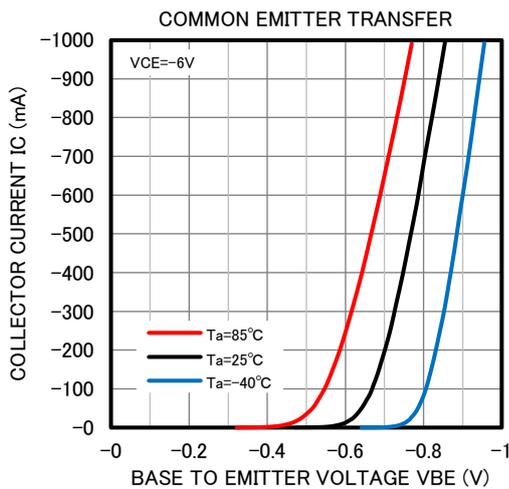
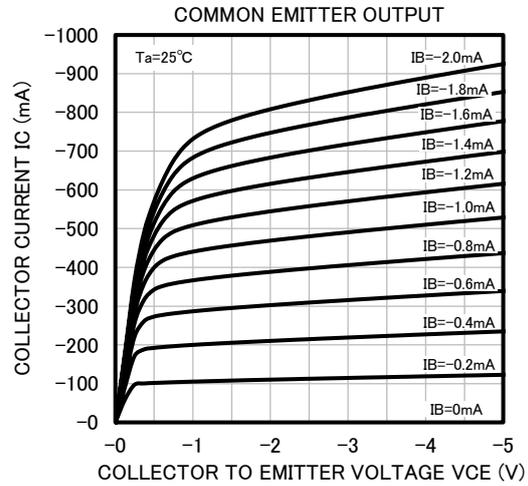
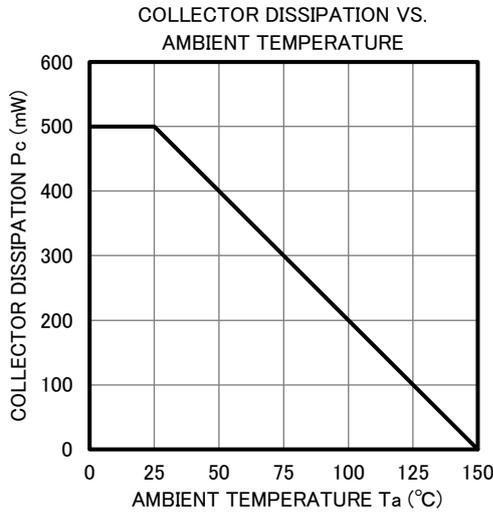
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V _{(BR)CBO}	C to B breakdown voltage	I _C =-10 μA, I _E =0mA	-30	-	-	V
V _{(BR)EBO}	E to B breakdown voltage	I _E =-10 μA, I _C =0mA	-6	-	-	V
V _{(BR)CEO}	C to E breakdown voltage	I _C =-1mA, R _{BE} =∞	-20	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =-20V, I _E =0mA	-	-	-0.1	μA
I _{EBO}	Emitter cut off current	V _{EB} =-2V, I _C =0mA	-	-	-0.1	μA
hFE ※	DC forward current gain	V _{CE} =-6V, I _C =-500mA	400	-	800	-
V _{CE(sat)}	C to E saturation voltage	I _C =-1A, I _B =-20mA	-	-0.25	-0.5	V
fT	Gain bandwidth product	V _{CE} =-10V, I _E =10mA	-	90	-	MHz
Cob	Collector output capacitance	V _{CB} =-10V, I _E =0mA, f=1MHz	-	37	-	pF

※) It shows hFE classification at right table.

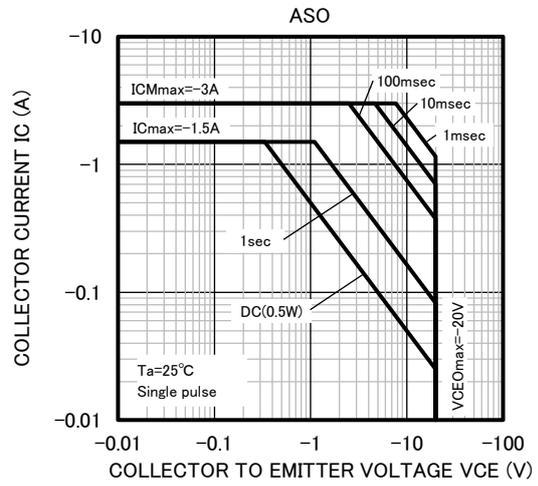
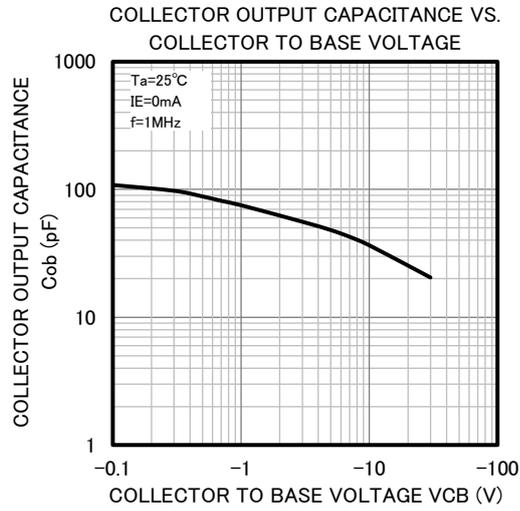
Item	G
hFE	400~800

TYPICAL CHARACTERISTICS



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