

2SA1369–TH51

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

AEC-Q101 Compliance

DESCRIPTION

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

Complementary with 2SC3439.

FEATURE

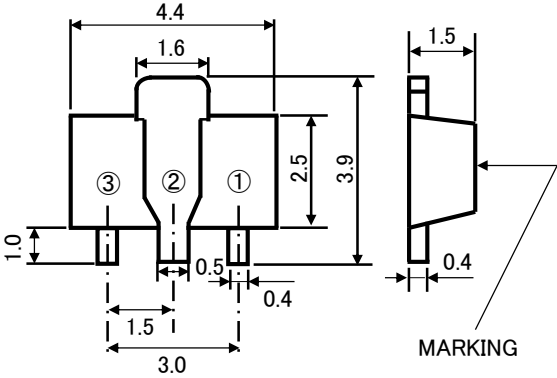
- High hFE hFE=400~800
- High collector current IC=–1.5A,ICM=–3A
- Small collector to emitter saturation voltage
VCE(sat)=–0.25V type (@IC=–1A/IB=–20mA)
- High collector dissipation PC=500mW
- Small package for easy mounting

APPLICATION

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

OUTLINE DRAWING

UNIT:mm



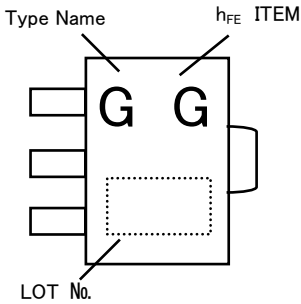
TERMINAL CONNECTOR

- 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
f _T	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

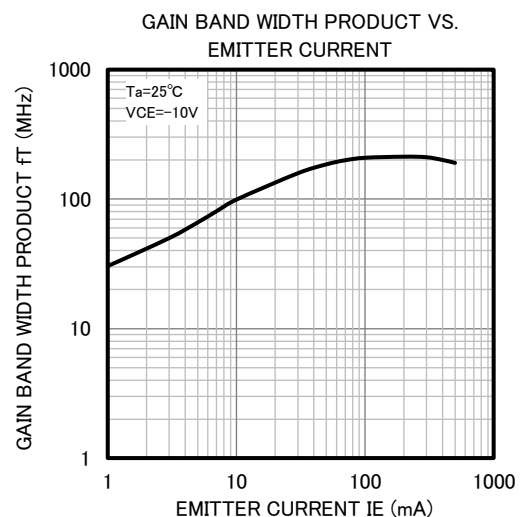
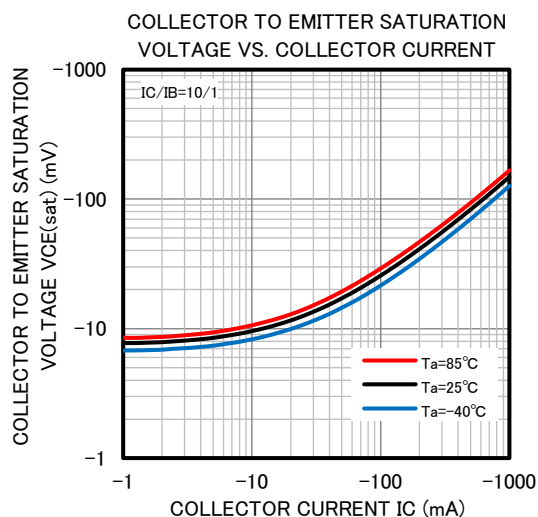
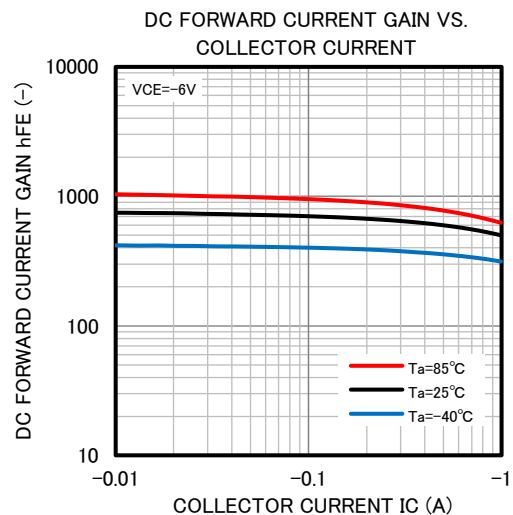
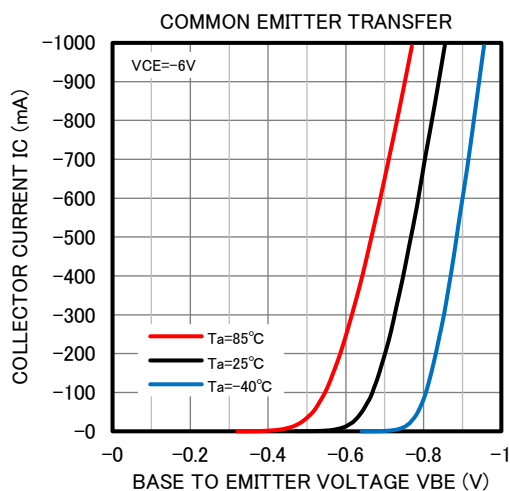
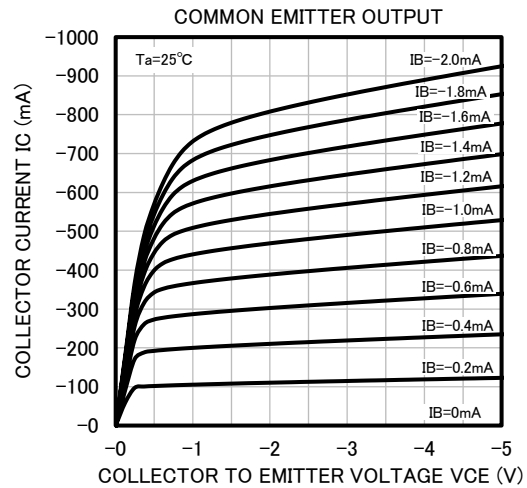
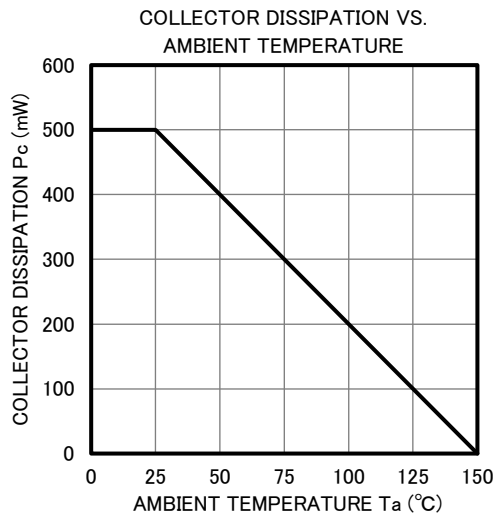
※) It shows hFE classification at right table.

Item	G
hFE	400~800

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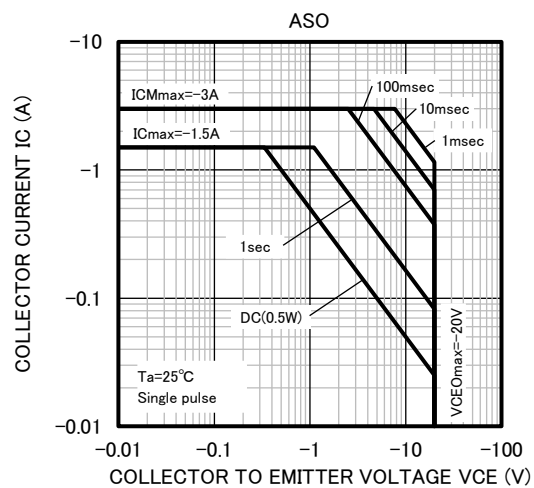
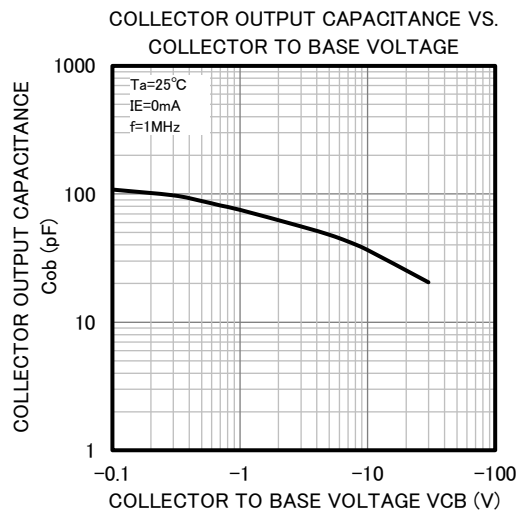
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TYPICAL CHARACTERISTICS



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