

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

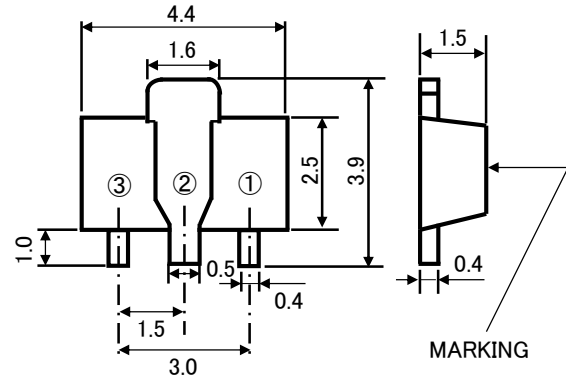
- High hFE hFE=400~800
- High collector current $I_C=-1.5A, I_{CM}=-3A$
- Small collector to emitter saturation voltage
 $V_{CE(sat)}=-0.25V$ type (@ $I_C=-1A, I_B=-20mA$)
- High collector dissipation $P_C=500mW$
- Small package for easy mounting

APPLICATION

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

OUTLINE DRAWING

UNIT:mm



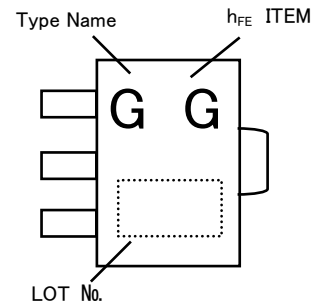
TERMINAL CONNECTOR

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

MAXIMUM RATING ($T_a=25^\circ C$)

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($T_a=25^\circ C$)	500	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55~+150	$^\circ C$

MARKING



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B breakdown voltage	$I_C=-10 \mu A, I_E=0mA$	-30	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E=-10 \mu A, I_C=0mA$	-6	-	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C=-1mA, R_{BE}=\infty$	-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

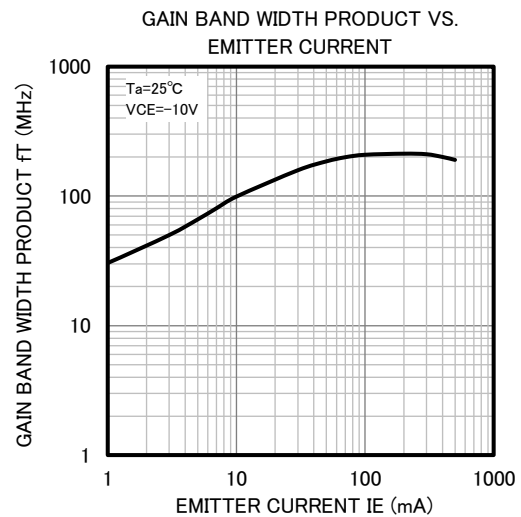
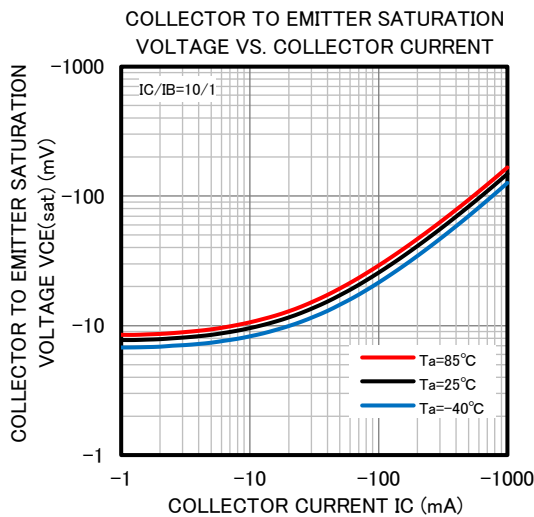
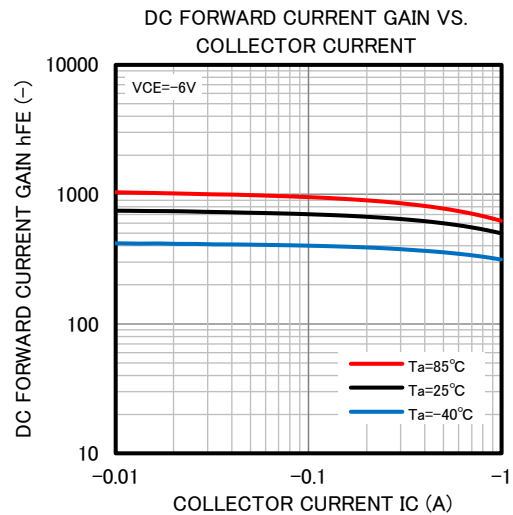
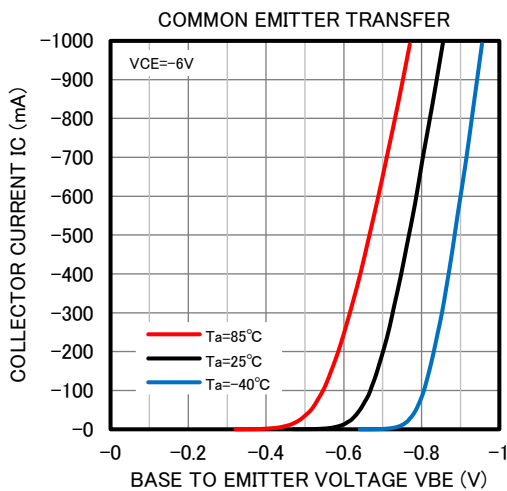
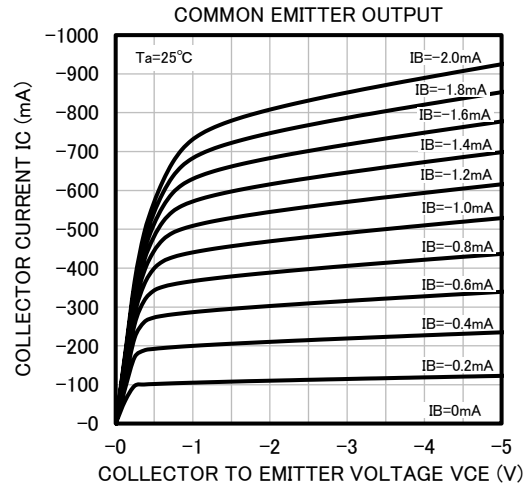
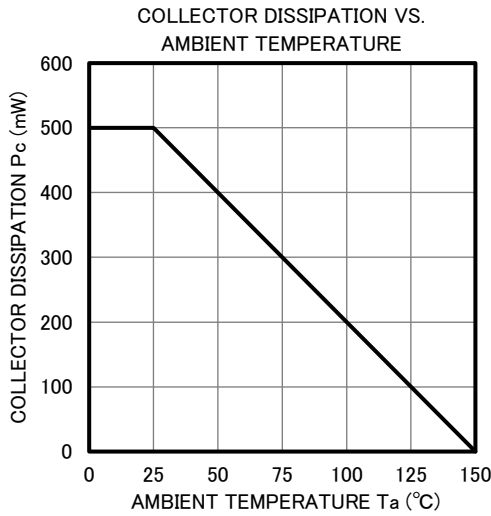
✕) It shows hFE classification at right table.

Item	G
hFE	400~800

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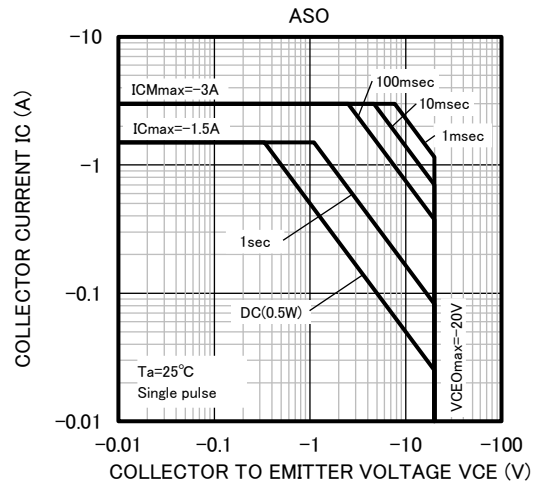
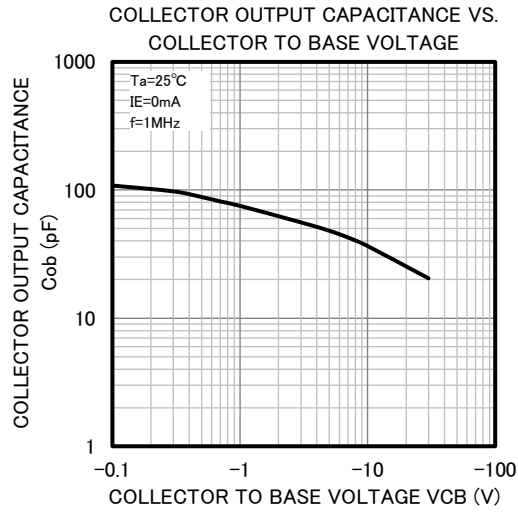
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TYPICAL CHARACTERISTICS



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