

2SAR552P

PNP -3.0A -30V Middle Power Transistor

V_{CEO} -30V Ic -3.0A Features Collector 1) Suitable for Middle Power Driver 2SAR552P 2) Complementary NPN Types : 2SCR552P SOT-89> 3) Low V _{CE(sat)} V _{CE(sat)} V _{CE(sat)} -0.4V(Max.) (I _C /I _g = -1A'-50mA) +) Lead Free/RoHS Compliant. Piner circuit Collector V_Enter Base Packaging specifications Motor driver, LED driver Package Size Taping Package V_Enco Other driver, LED driver Power supply Sould and the driver Notor driver, LED driver Policotor-base voltage V_CEO	Parameter	Valu	e		MPT3			
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*2 Each terminal mounted on a reference land

*3 Mounted on a ceramic board (40×40×0.7mm)

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•Electrical characteristics(Ta = 25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV _{CEO}	I _C = -1mA	-30	-	-	V
Collector-base breakdown voltage	BV _{CBO}	I _C = -100μA	-30	-	-	V
Emitter-base breakdown voltage	BV _{EBO}	I _E = -100μA	-6	-	-	v
Collector cut-off current	I _{CBO}	V _{CB} = -30V	-	-	-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -4V	-	-	-1	μA
Collector-emitter saturation voltage	V _{CE(sat)} *1	I _C = -1A, I _B = -50mA		-0.20	-0.40	V
DC current gain	h _{FE}	$V_{CE} = -2V, I_{C} = -500 \text{mA}$	200	-	500	-
Transition frequency	f _T	$V_{CE} = -10V, I_E = -100mA$ f=100MH _z	-	330	-	MHz
Output capacitance	C _{ob}	V _{CB} = -10V, / _E = 0A, f = 1MHz		25	-	pF
Turn-on time	t _{on} *2	I _c = -1.5A		35	-	ns
Storage time	t _{stg} *2	I _{B1} = -150mA I _{B2} =150mA	-	210	-	ns
Fall time	t _f *2	V _{CC} ≃ −10V	-	15	-	ns

*1 Pulsed

*2 See switching time test circuit



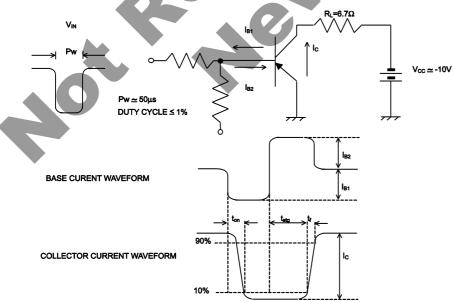


Fig.2 Typical Output Characteristics

•Electrical characteristic curves(Ta = 25°C)

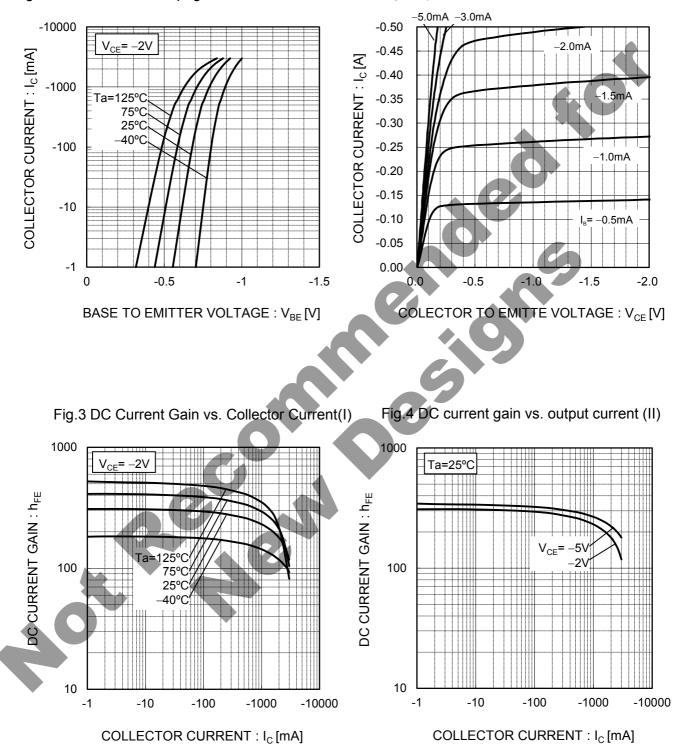
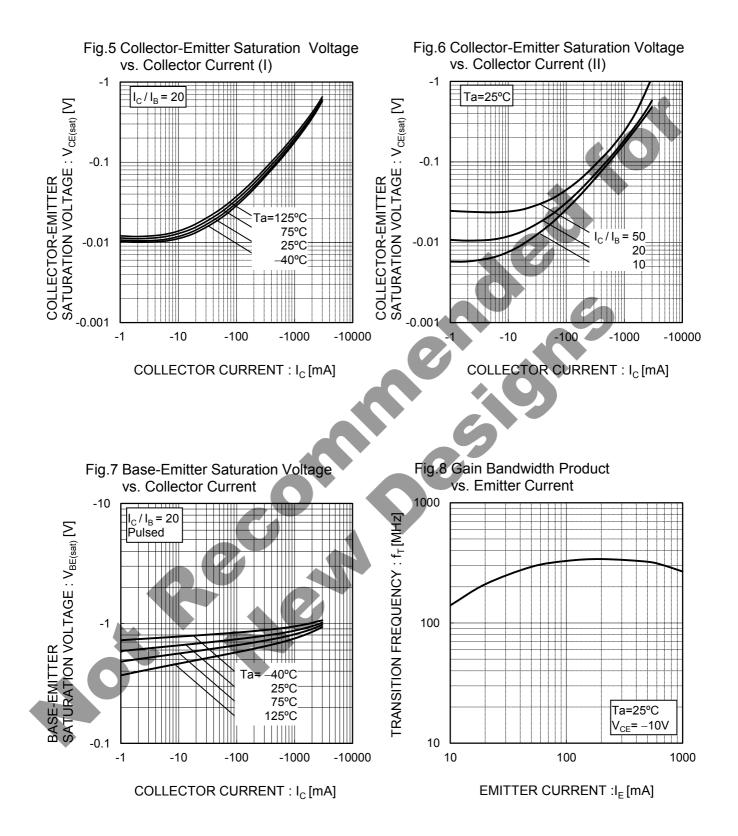
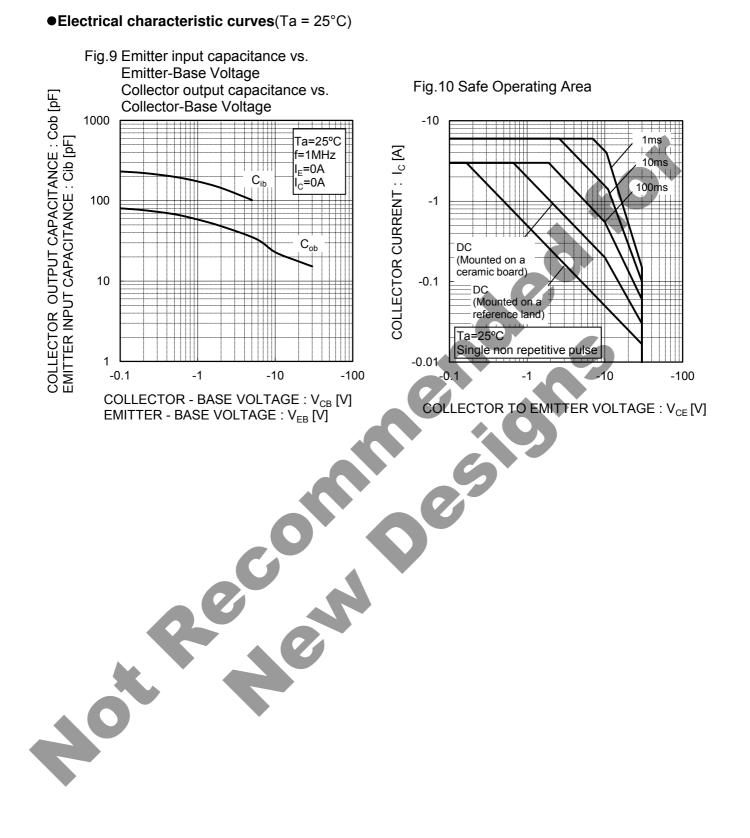


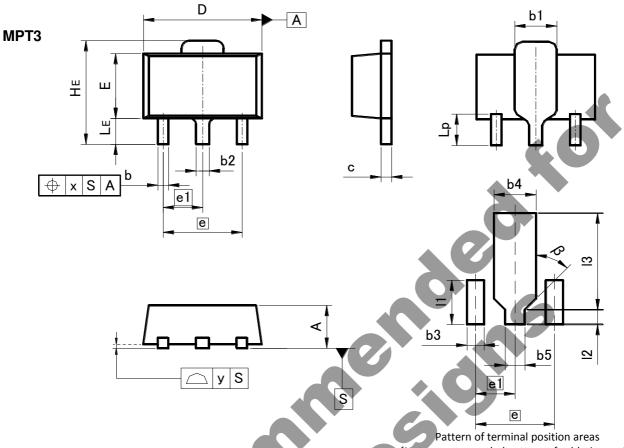
Fig.1 Ground Emitter Propagation Characteristics

•Electrical characteristic curves(Ta = 25°C)





•Dimensions (Unit : mm)



[Not a recommended pattern of soldering pads]

DIM	MILIM	TERS	INC	HES
DIM	MIN	MAX	MIN	MAX
A	1.40	1.50	0.055	0.059
b	0.30	0.50	0.012	0.020
b1	1.50	1.70	0.059	0.067
b2	0.40	0.60	0.016	0.024
C C	0.35	0.50	0.014	0.020
D	4.40	4.70	0.173	0.185
ш	2.40	2.70	0.094	0.106
е	3.0	00	0.1	18
e1	1.	50	0.0	59
HE	3.70	4.30	0.146	0.169
LE	0.80	1.20	0.031	0.047
Lp	1.01	1.41	0.040	0.056
х	-	0.15	-	0.006
У	-	0.10	-	0.004
DIM	MILIM	ETERS	INC	HES
	MIN	MAX	MIN	MAX
L2		0.05		0.000

DIM	MILIM	ETERS	INCHES		
	MIN	MAX	MIN	MAX	
b3	-	0.65	-	0.026	
b4	-	1.70	-	0.067	
b5	-	0.75	-	0.030	
1	-	1.71	-	0.067	
12	-	0.58	-	0.023	
13	_	3.72	_	0.146	
β	45	0	45	0	

Dimension in mm / inches

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