Medium Power Transistor **2SA1036K**

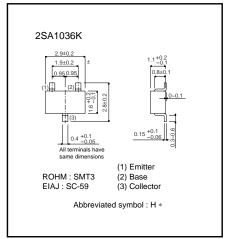
● Features

- 1) Large I_C . $I_{CMAX.} = -500 \text{mA}$
- 2) Low V_{CE(sat).} Ideal for low-voltage operation.
- 3) Complements the 2SC2411K.

●Structure

Epitaxial planer type PNP silicon transistor

●External dimensions (Unit : mm)



* Denotes hre

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CBO}	-40	V
Collector-emitter voltage	V _{CEO}	-32	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ic	-0.5	A *
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

^{*}Pc MAX. must not be exceeded.

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CBO}	-40	-	-	V	I _C = -100μA
Collector-emitter breakdown voltage	BV _{CEO}	-32	-	-	V	Ic= -1mA
Emitter-base breakdown voltage	BV _{EBO}	-5	-	-	V	I _E = -100μA
Collector outoff current	Ісво	-	-	-1	μΑ	V _{CB} = -20V
Emitter cutoff current	I _{EBO}	-	-	-1	μΑ	V _{EB} = -4V
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.6	V	I _C /I _B = -300mA/-30mA
DC current transfer ratio	h _{FE}	82	-	390	-	V _{CE} = -3V, I _C = -100mA
Transition frequency	f⊤	-	200	_	MHz	V _{CE} = −5V, I _E =20mA, f=100MHz
Output capacitance	Cob	-	7	-	pF	V _{CB} = -10V, I _E =0A, f=1MHz

Packaging specifications

		Package	Taping
		Code	T146
Type	h _{FE}	Basic ordering unit (pieces)	3000
2SA1036K	PQR		0

h_{FE} values are classifies as follows.

Item	Р	Q	R
h _{FE}	82 to 180	120 to 270	180 to 390

•Electrical characteristic curves

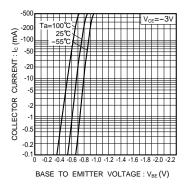


Fig.1 Grounded emitter propogation

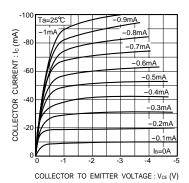


Fig.2 Grounded emitter output characteristics (I)

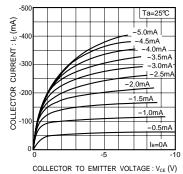
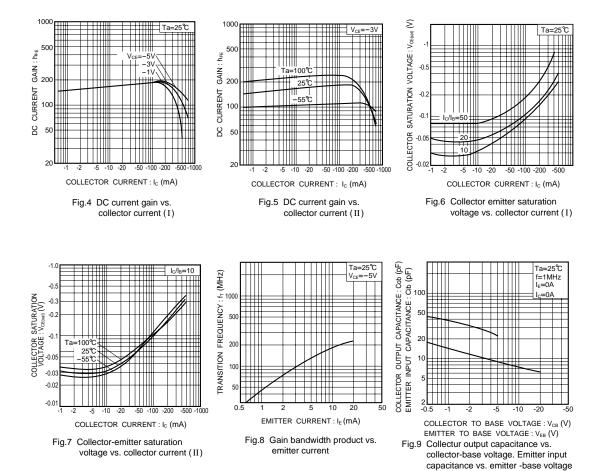


Fig.3 Ground emitter output characteristics (II)



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