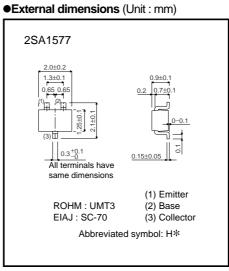
Medium Power Transistor (-32V,-05A) 2SA1577

Features

- 1) Large I_C.
- $I_{CMAX.} = -500 \text{mA}$
- 2) Low V_{CE(sat)}. Ideal for low-voltage operation.
- 3) Complements the 2SC4097.

Structure

Epitaxial planer type PNP silicon transistor



* Denotes hFE

•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	V _{сво}	-40	V	
Collector-emitter voltage	Vceo	-32	V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector current	lc	-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.

Transistors

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВVсво	-40	-	-	V	Ic=-100μA
Collector-emitter breakdown voltage	BV _{CEO}	-32	-	-	V	I _C = -1mA
Emitter-base breakdown voltage	BVEBO	-5	_	_	V	I _E = -100μA
Collector outoff current	Ісво	-	_	-1	μΑ	V _{CB} = -20V
Rmitter 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	hfe	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

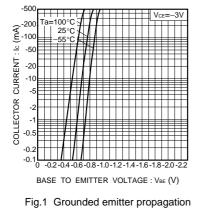
Packaging specifications

		Package	Taping
		Code	T106
Туре	h _{FE}	Basic ordering unit (pieces)	3000
2SA1577	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



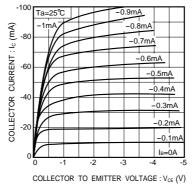


Fig.2 Grounded emitter output characteristics (I)

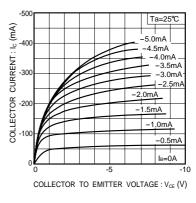
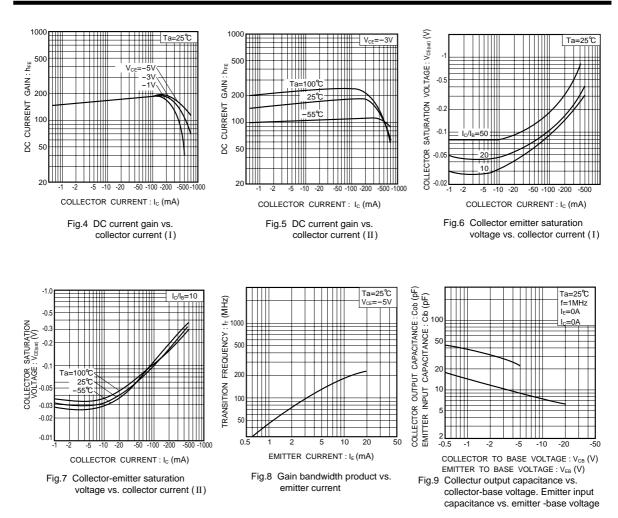


Fig.3 Ground emitter output characteristics (II)

Transistors



Notes

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