

DP100

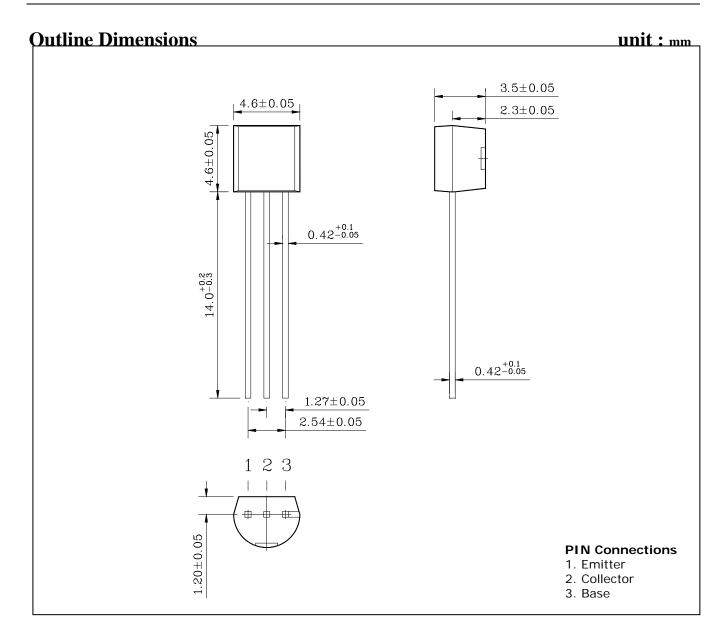
PNP Silicon Transistor

Features

- Extremely low collector-to-emitter saturation voltage ($V_{CE(SAT)} = -0.25V$ Typ. @ $I_C/I_B = -400$ mA/-20mA)
- Suitable for low voltage large current drivers
- Complementary pair with DN100
- Switching Application

Ordering Information

Type NO.	Marking	Package Code	
DP100	DP100	TO-92	



DP100

Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	-15	V
Collector-Emitter voltage	V_{CEO}	-12	V
Emitter-Base voltage	V_{EBO}	-5	V
Collector current	I _C	-1	Α
Collector dissipation	P _C	625	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55~150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_C = -50 \mu A, I_E = 0$	-15	-	-	V
Collector-Emitter breakdown voltage	BV _{CEO}	$I_C=-1mA$, $I_B=0$	-12	-	-	V
Emitter-Base breakdown voltage	BV _{EBO}	$I_E = -50 \mu A, I_C = 0$	-5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = -12V, I_{E} = 0$	-	-	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5V$, $I_{C} = 0$	-	-	-0.1	μΑ
DC current gain	h _{FE1}	V _{CE} =-1V, I _C =-100mA	200	-	450	-
	h _{FE2}	V _{CE} =-1V, I _C =-1A	70	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =-400mA, I _B =-20mA	-	-	-0.3	V
Base-Emitter saturation voltage	V _{BE(sat)}	I _C =-400mA, I _B =-20mA	-	-	-1.2	V
Transition frequency	f _T	V_{CE} =-5V, I_{C} =-50mA	-	330	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f =1MHz	-	9	-	pF

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Electrical Characteristic Curves

Fig. 1 P_C - T_a

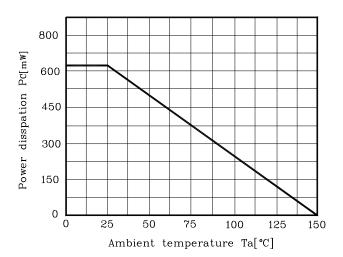


Fig. 3 h_{FE} . I_C

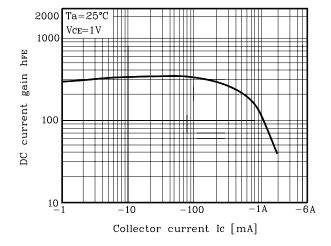


Fig. 2 I_C - V_{BE}

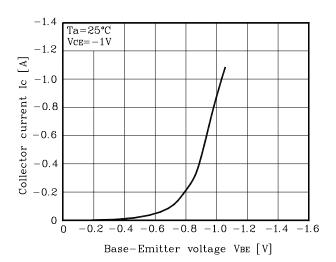
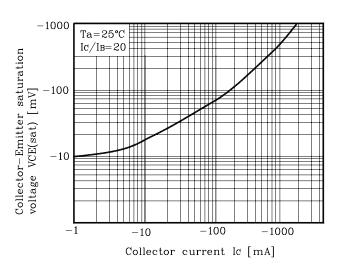


Fig. 4 $V_{CE(sat)}$. I_C



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