

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

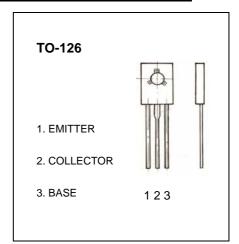
TO-126 Plastic-Encapsulate Transistors

D882 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 1.25 W (Tamb=25°C)



MAXIMUM RATINGS* T_A=25℃ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	3	А
P _D	Total Device Dissipation	1.25	W
TJ	Junction Temperature	150	°C
T _{stg}	Junction and Storage Temperature	-55-150	°C

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

ELECTRICAL CHARACTERISTICS(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR) _{CBO}	Ic=100uA ,I _E =0	40			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I_C = 10 mA , I_B =0	30			V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E = 100 mA ,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =40 V , I _E =0			1	uA
Collector cut-off current	I _{CEO}	V _{CE} =30 V , I _B =0			10	uA
Emitter cut-off current	I _{EBO}	V _{EB} =6V , I _C =0			1	uA
DC ourrent gain	h _{FE(1)}	V _{CE} = 2V, I _C = 1A	60		400	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C = 100mA	32			
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =2A, I _B = 0.2A			0.5	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =2A, I _B = 0.2A			1.5	V
Transition frequency	f _T	$V_{CE}=5 \text{ V}, I_{C}=0.1\text{mA}$ f = 10MHz	50			MHz

CLASSIFICATION OF hFE(1)

Rank	R	0	Y	GR
Range	60-120	100-200	160-320	200-400

Typical Characteristics

D882

