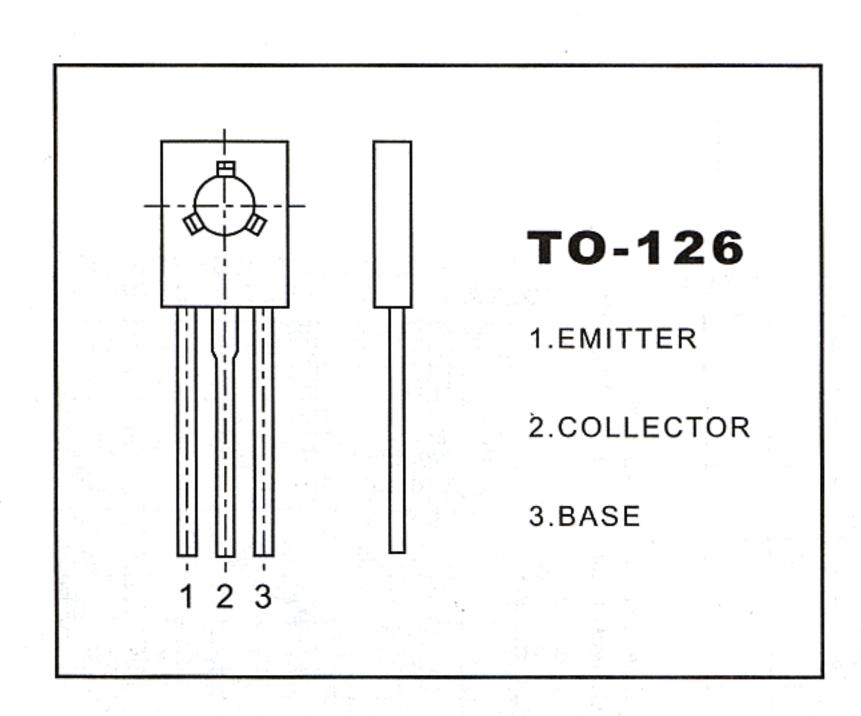
TO-126 Plastic-Encapsulate Transistors

D882 TRANSISTOR(NPN)



FEATURES

Power dissipation

Pсм: 1.25W (Tamb=25°С)

Collector current

Iсм: 3 A

Collector-base voltage

V(BR)CBO: 40 V

Operating and storage junction temperature range

T_J,T_{stg:} -55℃ to + 150℃

ELECTRICAL CHARACTERISTICS

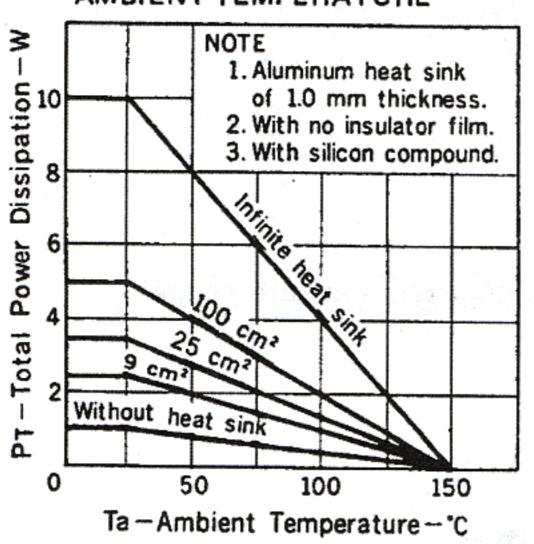
(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	Ic= 100 μ A, I _E =0	40		V
Collector-emitter breakdown voltage	V(BR)CEO	Ic= 10 mA, Iв=0	30		V
Emitter-base breakdown voltage	V(BR)EBO	I _E = 100 μ A, I _C =0	6		٧
Collector cut-off current	Ісво	V _{CB} = 40 V, I _E =0		.1	μА
Collector cut-off current	ICEO	Vce= 30 V, I _B =0		1	μА
Emitter cut-off current	І Ево	V _{EB} = 6 V, I _C =0		1	μА
DC current gain	hFE(1)	VcE= 2 V, Ic= 1 A	60	400	
	hfE(2)	VcE= 2 V, Ic= 100 mA	32		٠,
Collector-emitter saturation voltage	VCEsat	Ic= 2 A, I _B = 0.2 A		0.5	V
Base-emitter saturation voltage	VBEsat	Ic= 2 A, I _B = 0.2 A		2	· V
Transition frequency	fτ	VcE= 5 V, Ic= 0.1 A f =10 MHz	50		MHz

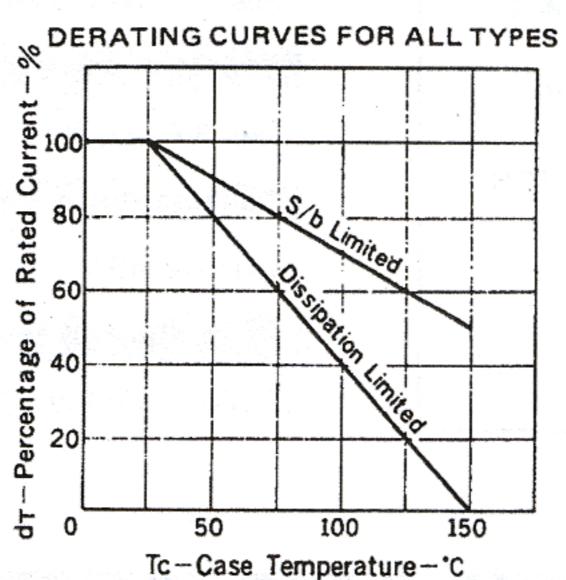
CLASSIFICATION OF hfe(1)

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

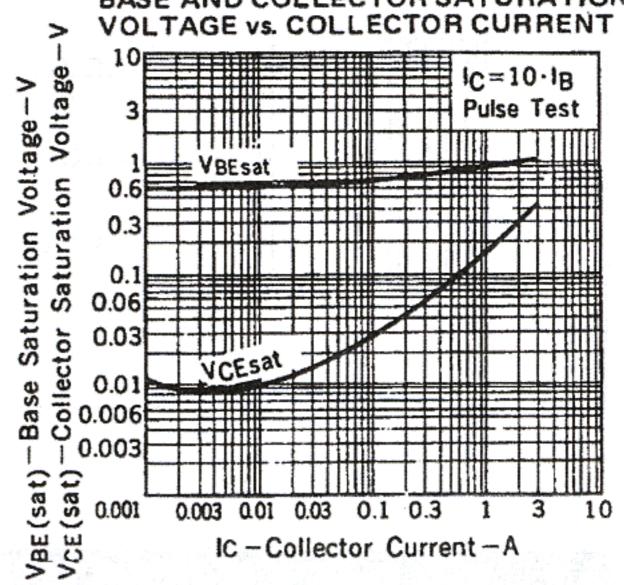




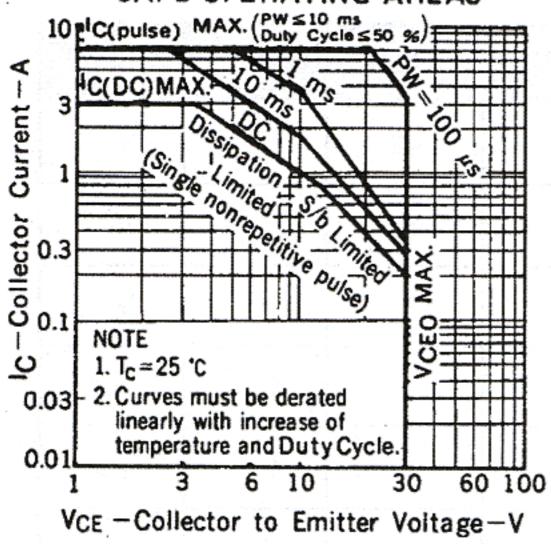




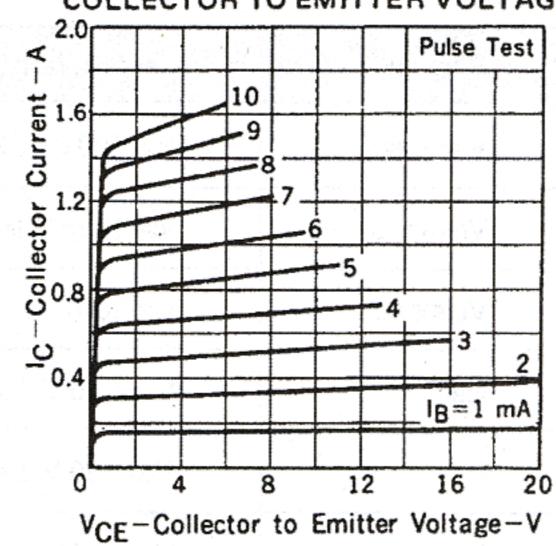
BASE AND COLLECTOR SATURATION **VOLTAGE vs. COLLECTOR CURRENT**



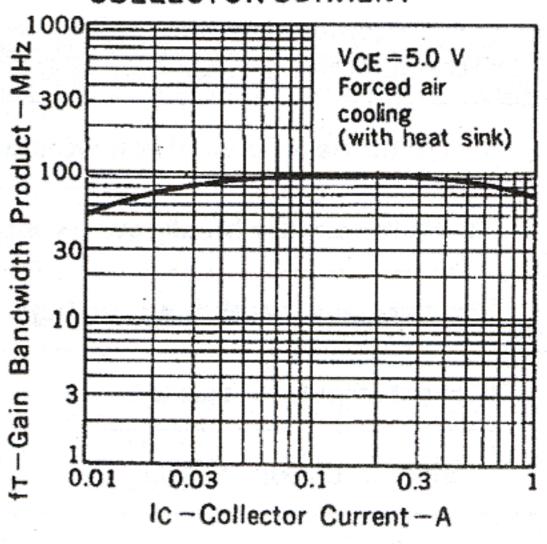
SAFE OPERATING AREAS



COLLECTOR CURRENT vs. **COLLECTOR TO EMITTER VOLTAGE**



GAIN BANDWIDTH PRODUCT vs. **COLLECTOR CURRENT**



INPUT AND OUTPUT CAPACITANCE vs. REVERSE VOLTAGE

