

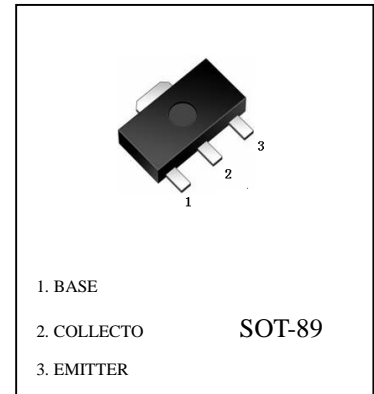
FEATURES

Power dissipation

Marking : 882

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current -Continuous	I_C	3000	mA
Collector Power Dissipation	P_C	500	mW
Storage Temperature	T_{stg}	-55-150	°C

D882(NPN)

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = 100\mu A, I_E = 0$	40			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C = 10mA, I_B = 0$	30			V
Emitter-base breakdown voltage	V_{EBO}	$I_E = 100\mu A, I_C = 0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB} = 40V, I_E = 0$			1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 30V, I_B = 0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 6V, I_C = 0$			1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = 2V, I_C = 1A$	60		400	
	$h_{FE(2)}$	$V_{CE} = 2V, I_C = 100mA$	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	$V_{CE} = 5V, I_C = 0.1A$ $f = 10MHz$	50			MHz

CLASSIFICATION OF HFE

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

D882 Typical Characteristics

