

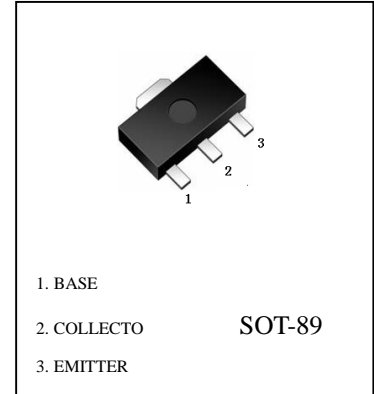
**FEATURES**

Power dissipation

Marking : 882

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

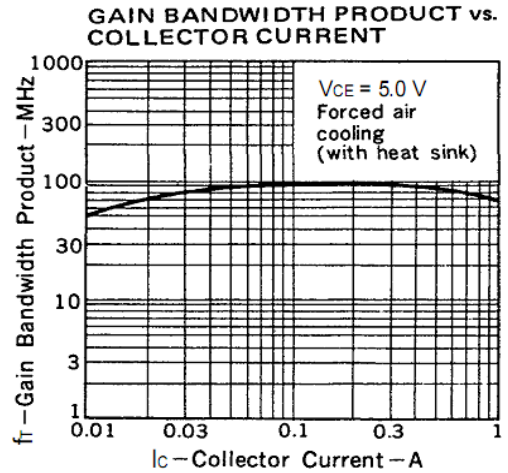
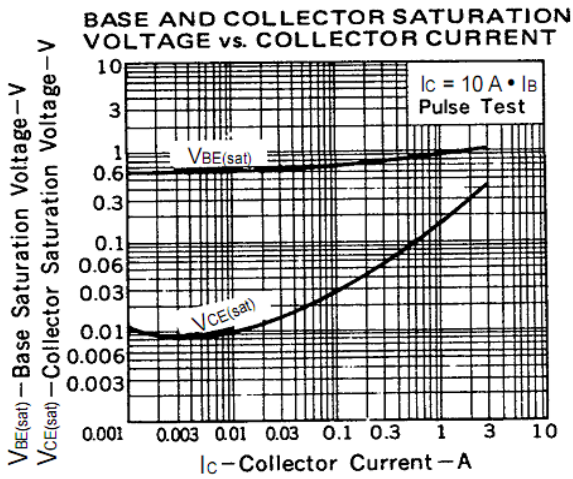
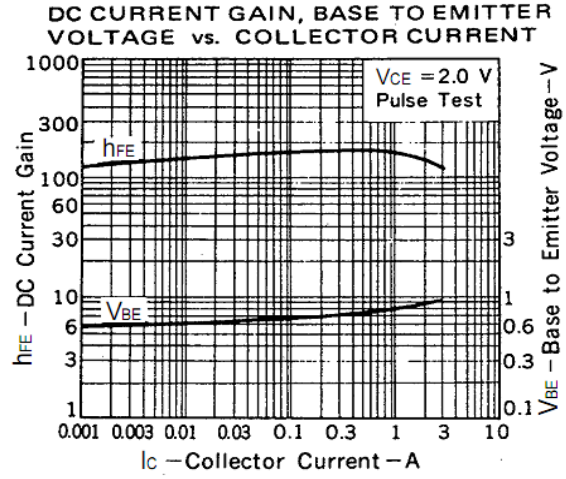
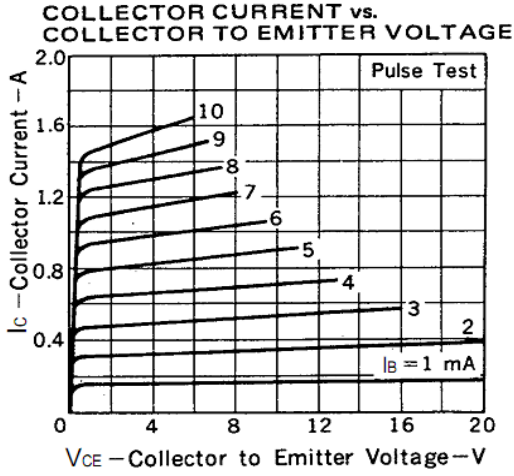
Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current -Continuous	$I_C$	3000	mA
Collector Power Dissipation	$P_C$	500	mW
Storage Temperature	$T_{stg}$	-55-150	°C

**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	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE} = 30V, I_B = 0$			10	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 6V, I_C = 0$			1	$\mu A$
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


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