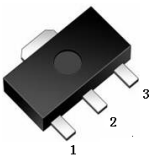
FEATURES

- Suitable for output stage of3 watts Amplifier
- Suitable flat package
- PC=1.0 to 2.0W(mounted on ceramic substrate)
- Complementary to 2SC2884

2SA1203 (PNP)



1. BASE
2. COLLECTO
3. EMITTER

SOT-89

Maximum Ratings (Ta=25 ℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-30	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-1500	mA
Collector Power dissipation	P_C	500 1000 (note)	mW
Junction Temperature	T_J	150	℃
Storage Temperature	T_{stg}	-55to +150	℃

ELECTRICAL CHARACTERISTICS (@ Ta=25 ℃ unless otherwise specified)

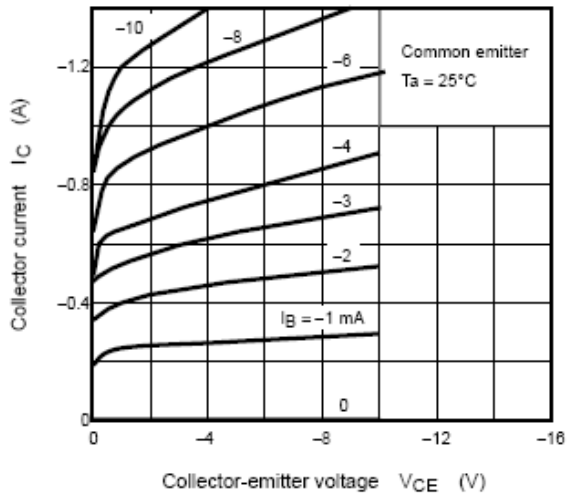
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V_{CEO}	I_C=-10mA,I_B=0	-30			V
Emitter-base breakdown voltage	V_{EBO}	I_E=-1mA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-30V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V,I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-2V,I_C=-500mA	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-1.5A,I_B=-0.03A			-2	V
Base-emitter	V_{BE}	V_{CE}=-2V,I_C=-500mA			-1	
Transition frequency	f_T	V_{CE}=-2V, I_C=-500mA		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz			50	pF

CLASSIFICATION OF h_{FE}

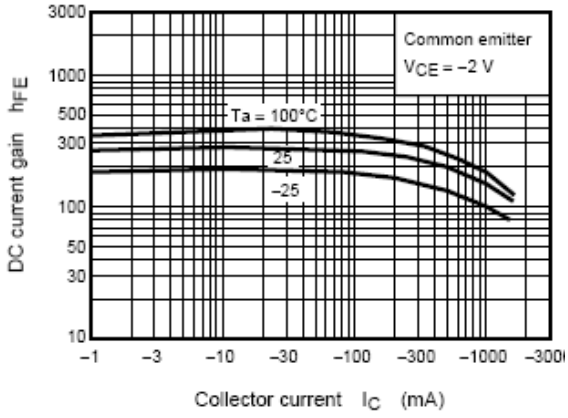
Rank	O	Y
Range	100-200	160-320
Marking	HO1	HY1

2SA1203 Typical Characteristics

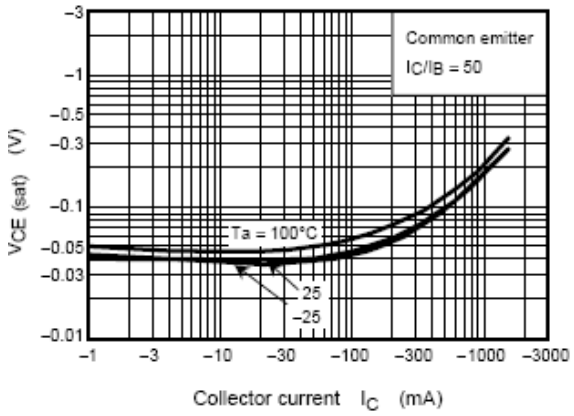
$I_C - V_{CE}$



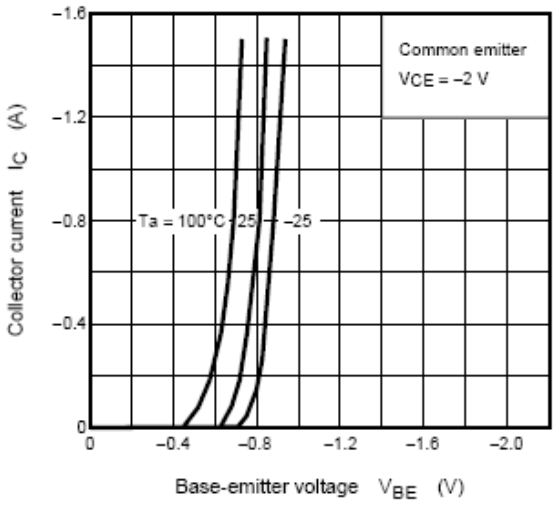
$h_{FE} - I_C$



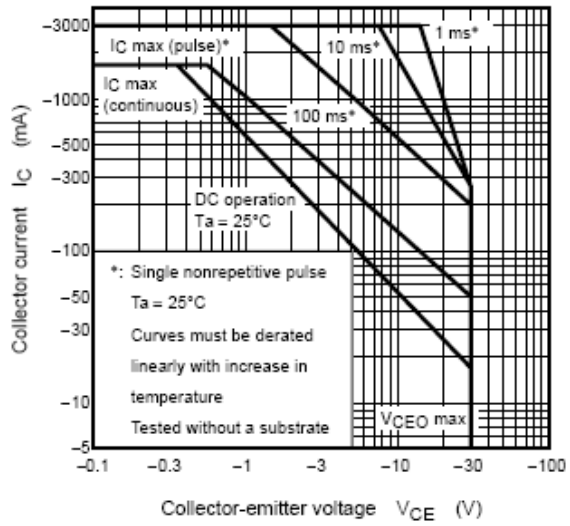
$V_{CE\ (sat)} - I_C$



$I_C - V_{BE}$



Safe Operating Area



$P_C - Ta$