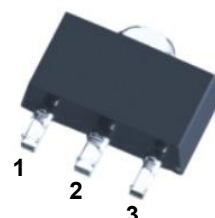


Descriptions

- Silicon PNP transistor in a SOT-89 Plastic Package

Features

- High current, low voltage



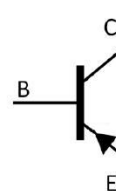
PIN1 : Base

PIN 2 : Collector

PIN 3 : Emitter

Applications

- Driver stages of audio and video amplifiers.



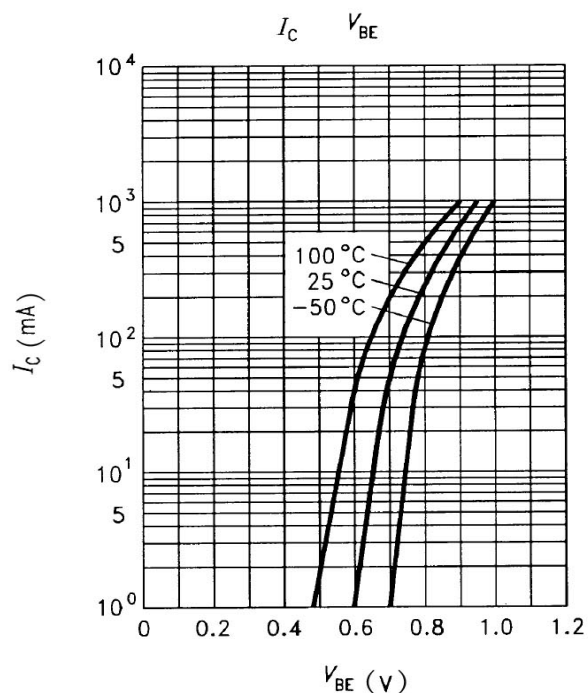
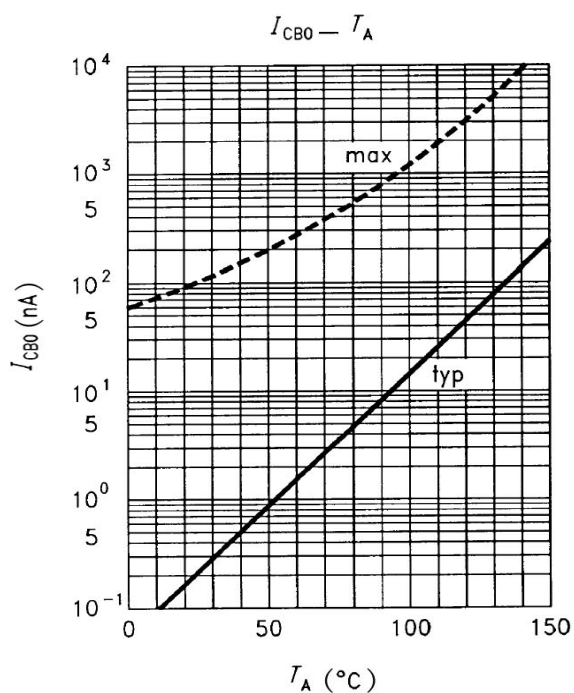
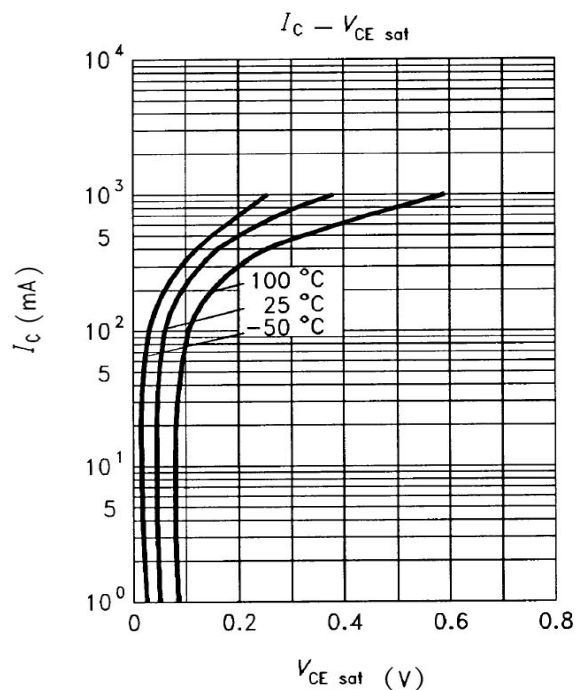
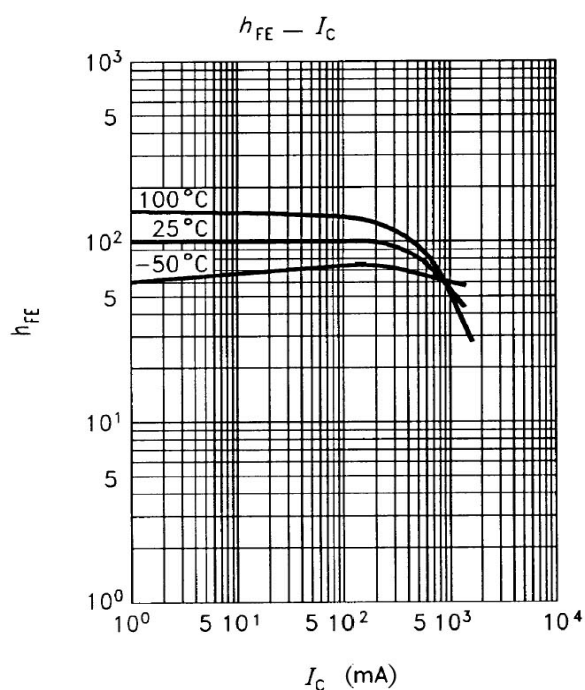
Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	-100	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-1	A
Peak Collector Current	I_{CM}	-1.5	A
Peak Base Current	I_{BM}	-0.2	A
Collector Power Dissipation	$P_C(T_C=25^{\circ}C)$	1.3	W
Storage Temperature Range	T_{stg}	-55~150	°C

Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector Cut-Off Current	$I_{CBO(1)}$	$V_{CB}=-30V$ $I_E=0$			-0.1	μA
	$I_{CBO(2)}$	$V_{CB}=-30V$ $I_E=0$ $T_J=125^{\circ}C$			-10	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2V$ $I_C=-150mA$	63		250	
	$h_{FE(2)}$	$V_{CE}=-2V$ $I_C=-5mA$	40			
	$h_{FE(3)}$	$V_{CE}=-2V$ $I_C=-500mA$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA$ $I_B=-50mA$			-0.5	V
Base to Emitter Voltage	V_{BE}	$I_C=-500mA$ $V_{CE}=-2V$			-1	V
Transition Frequency	f_T	$I_C=-10mA$ $V_{CE}=-5.0V$ $f=100MHz$		50		MHz

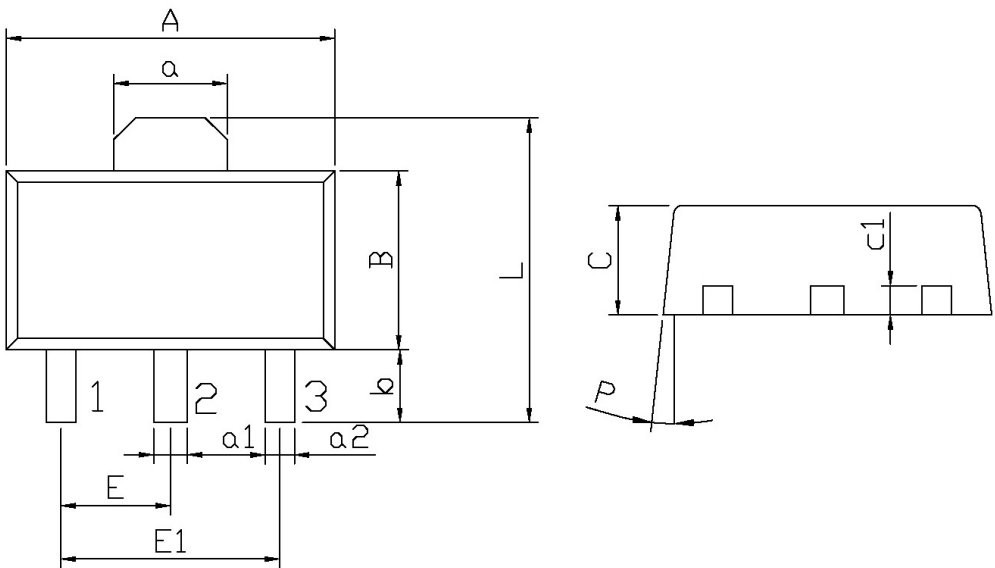
Electrical Characteristic Curve



Package Dimensions

SOT-89

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.4	4.7	a1	0.36	0.56
B	2.35	2.65	a2	0.30	0.50
L	3.878	4.478	C	1.40	1.70
a	1.45	1.65	c1	0.35	0.50
E	1.40	1.60	P	6°	
E1	2.80	3.20			
b	0.80	1.20			

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