

描述 / Descriptions

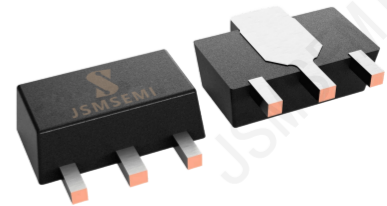
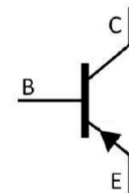
SOT-89 塑封封装 PNP 半导体三极管。
 Silicon PNP transistor in a SOT-89 Plastic Package.

特征 / Features

大电流，低电压。
 High current, low voltage.

用途 / Applications

主要用于音频放大的驱动级。
 Driver stages of audio and video amplifiers.

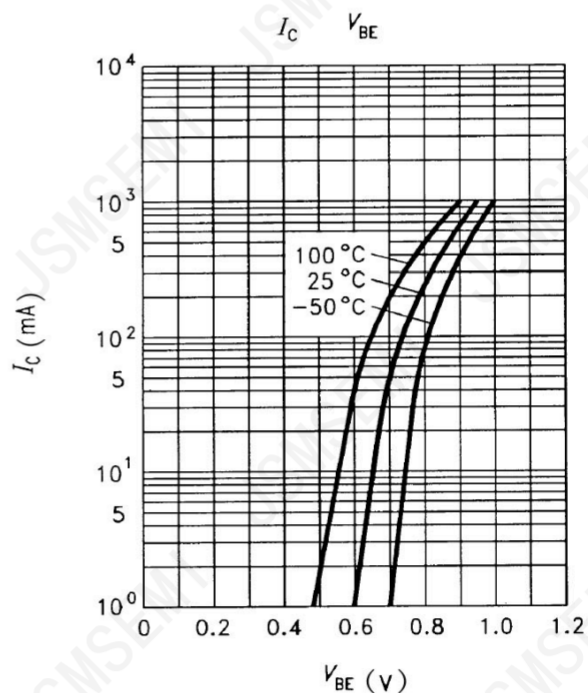
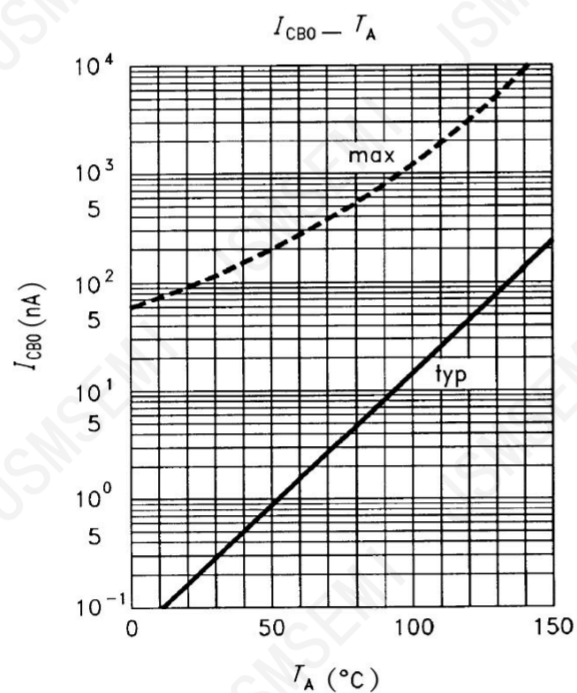
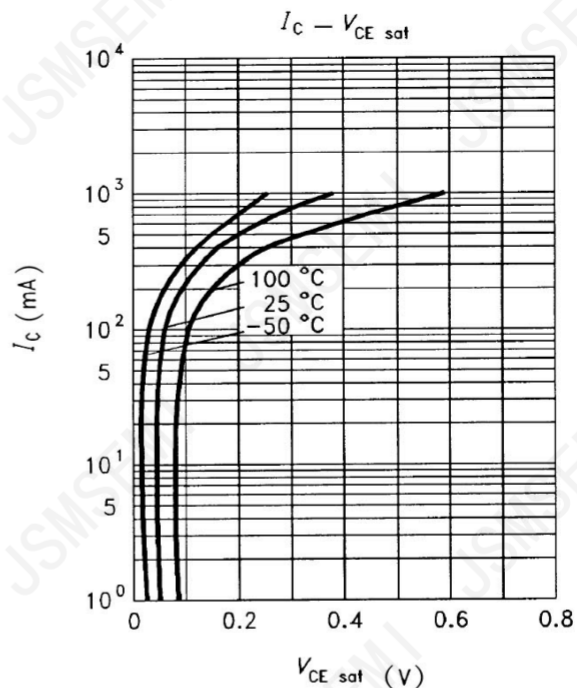
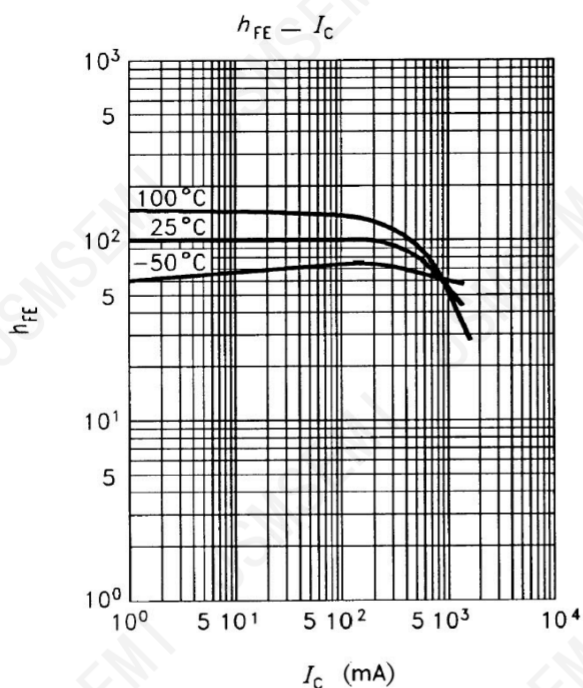

SOT-89

Equivalent Circuit
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值R ating	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

电性能参数 / Electrical Characteristics(Ta=25°C)

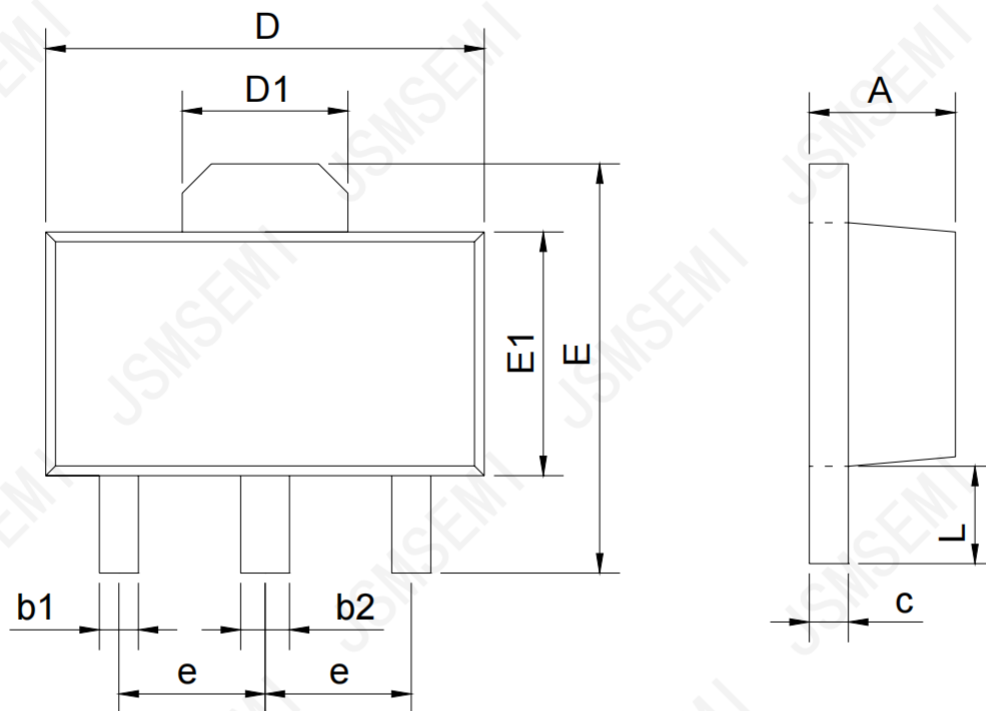
参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector Cut-Off Current	$I_{CBO(1)}$	$V_{CB}=-30V$ $I_E=0$			-0.1	μA
	$I_{CBO(2)}$	$V_{CB}=-30V$ $I_E=0$ $T_j=125^{\circ}C$			-10	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2V$ $I_C=-150mA$	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

电参数曲线图 / Electrical Characteristic Curve



Package Information

SOT-89



SYMBOL	mm	
	min	max
A	1.40	1.60
b1	0.35	0.50
b2	0.45	0.60
c	0.36	0.46
D	4.30	4.70
D1	1.40	1.80
E	4.00	4.40
E1	2.30	2.70
e	1.50BSC	
L	0.80	1.20

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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