用途:用于音频小功率放大，激励级放大及开关电路。

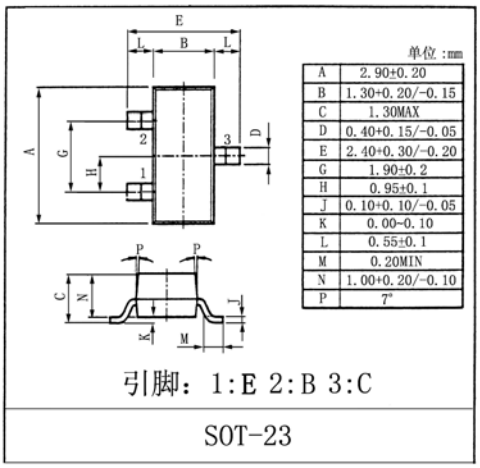
Purpose: Audio frequency low power amplifier, driver stage amplifier, switching applications.

特点:极好的 h_{FE} 特性,与 2SC1959M(3DG1959M)互补。

Features: Excellent h_{FE} linearity, complementary pair with 2SC1959M(3DG1959M).

极限参数/Absolute Maximum Ratings(Ta=25℃)

参数符号 Symbol	数值 Rating	单位 Unit
V_{CBO}	-35	V
V_{CEO}	-30	V
V_{EBO}	-5.0	V
I_C	-500	mA
I_B	-100	mA
P_C	400	mW
T_j	150	℃
T_{stg}	-55～150	℃

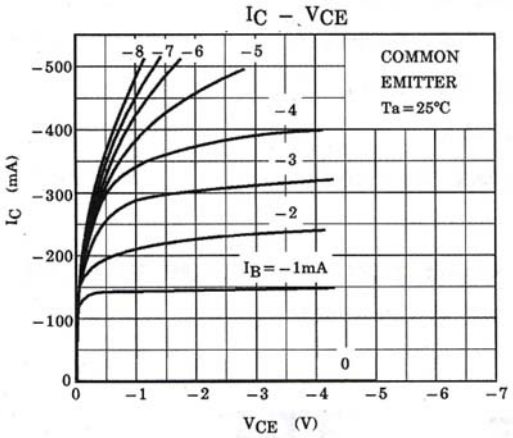


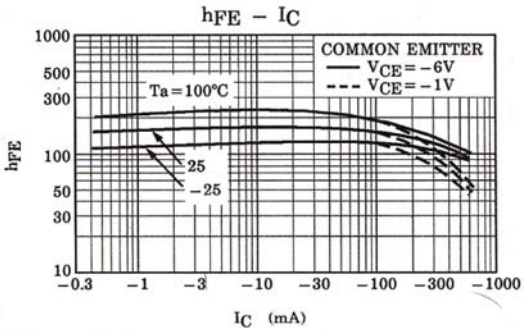
电性能参数/Electrical Characteristics(Ta=25℃)

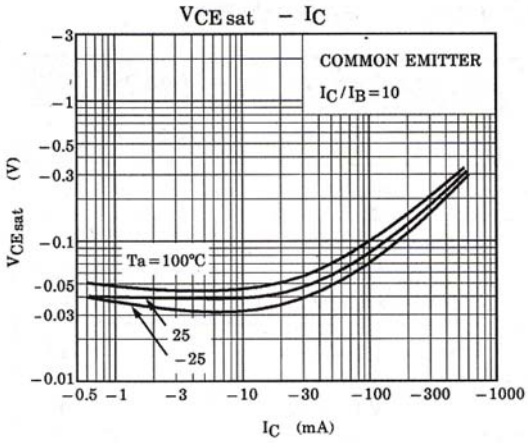
参数符号 Symbol	测试条件 Test Condition	数值 Rating 最小值 Min	数值 Rating 典型值 Typ	数值 Rating 最大值 Max	单位 Unit
I_{CBO}	V_{CB}=-35V I_E=0			-0.1	μA
I_{EBO}	V_{EB}=-5.0V I_C=0			-0.1	μA
$h_{FE(1)}$	V_{CE}=-1.0V I_C=-100mA	70		240	
$h_{FE(2)}$	V_{CE}=-6.0V I_C=-400mA	25			
$V_{CE(sat)}$	I_C=-100mA I_B=-10mA		-0.1	-0.25	V
V_{BE}	V_{CE}=-1.0V I_C=-100mA		-0.8	-1.0	V
f_T	V_{CE}=-6.0V I_C=-20mA		200		MHz
C_{ob}	V_{CB}=-6.0V I_E=0 f=1.0MHz		13		pF

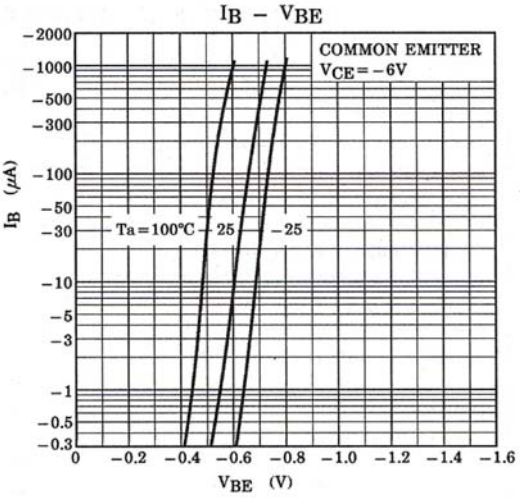
$h_{FE(1)}$分档/$h_{FE(1)}$ classifications:

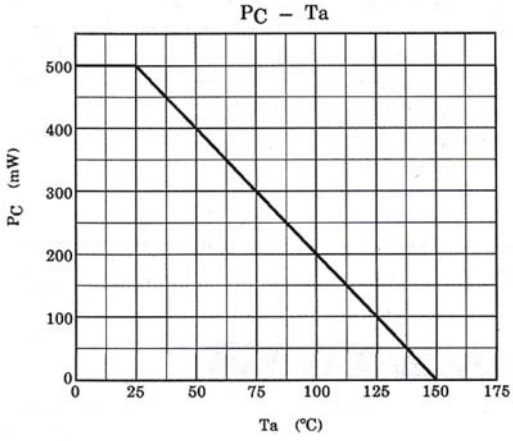
$h_{FE(1)}$分档 $h_{FE(1)}$ Classifications	O	Y
$h_{FE(1)}$范围 $h_{FE(1)}$ Range	70～140	120～240
印章 Marking	HVAO	HVAY


IC – VCE
COMMON EMITTER
Ta=25°C
IB=–1mA
IC (mA)
VCE (V)


hFE – IC
COMMON EMITTER
VCE=–6V
VCE=–1V
Ta=100°C
25
–25
hFE
IC (mA)


VCE sat – IC
COMMON EMITTER
IC/IB=10
Ta=100°C
25
–25
VCE sat (V)
IC (mA)


IB – VBE
COMMON EMITTER
VCE=–6V
Ta=100°C
25
–25
IB (μA)
VBE (V)


PC – Ta
PC (mW)
Ta (°C)