

印章/Marking: 2TY

用途/Applications:

用于功率放大电路, 与 S8050 互补。



极限参数/Absolute maximum ratings (Ta=25°C)

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
集电极-基极电压/Collector-Base Voltage	$V_{CB0}$	-40	V
集电极-发射极电压/Collector-Emitter Voltage	$V_{CE0}$	-25	V
发射极-基极电压/Emitter-Base Voltage	$V_{EB0}$	-5	V
集电极连续电流/Collector Current Continuous	$I_C$	-0.5	A
集电极耗散功率/Collector Power Dissipation	$P_C$	0.3	W
结温/Junction Temperature	$T_j$	150	°C
储存温度/Storage Temperature	$T_{stg}$	-55~150	°C

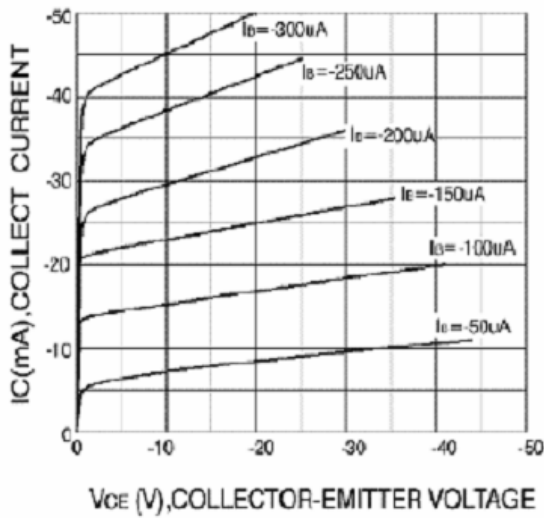
电性能参数/Electrical characteristics (Ta=25°C)

参数	符号	测试条件	最小值	典型值	最大值	单位
集电极-基极击穿电压	$V_{BR(CB0)}$	$I_C = -100 \mu A, I_E = 0$	-40			V
集电极-发射极击穿电压	$V_{BR(CE0)}$	$I_C = -1mA, I_B = 0$	-25			V
发射极-基极击穿电压	$V_{BR(EB0)}$	$I_E = -100 \mu A, I_C = 0$	-5			V
集电极截止电流	$I_{CB0}$	$V_{CB} = -40V, I_E = 0$			-0.1	$\mu A$
发射极截止电流	$I_{EB0}$	$V_{EB} = -3V, I_C = 0$			-0.1	$\mu A$
集电极发射极穿透电流	$I_{CE0}$	$V_{CE} = -20V, I_B = 0$			-0.1	$\mu A$
直流电流增益	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -50mA$	120		400	
直流电流增益	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -500mA$	50			
集电极-发射极饱和压降	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			-0.6	V
基极-发射极饱和压降	$V_{BE(sat)}$	$I_C = -500mA, I_B = -50mA$			-1.2	V
特征频率	$f_T$	$V_{CE} = -6V, I_C = -20mA, f = 30MHz$	150			MHz

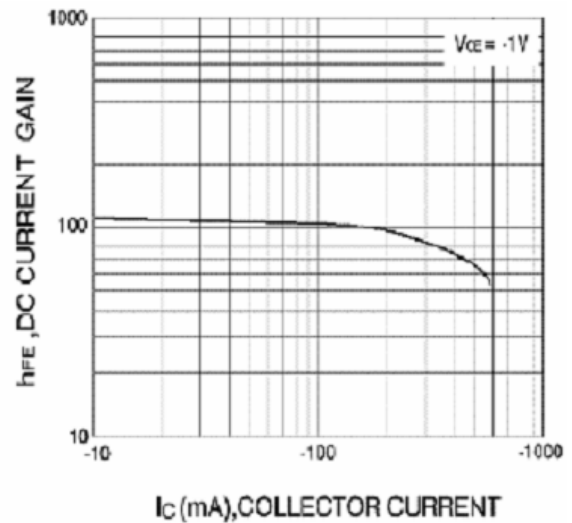
$h_{FE}$  分档/Classification of  $h_{FE(1)}$

档位/Rank	L	H
范围/Range	120~200	200~350

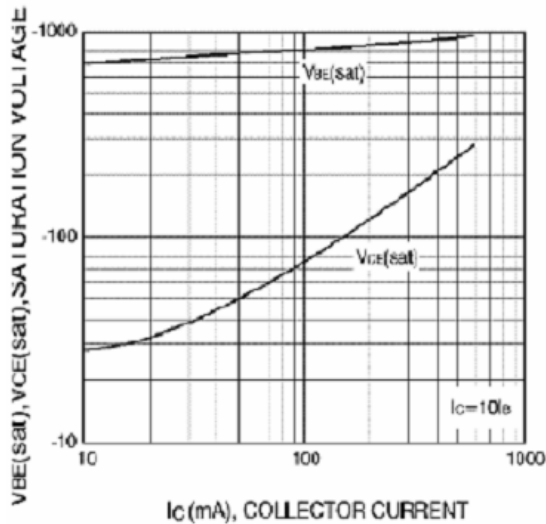
典型特性曲线图/Typical Characteristics



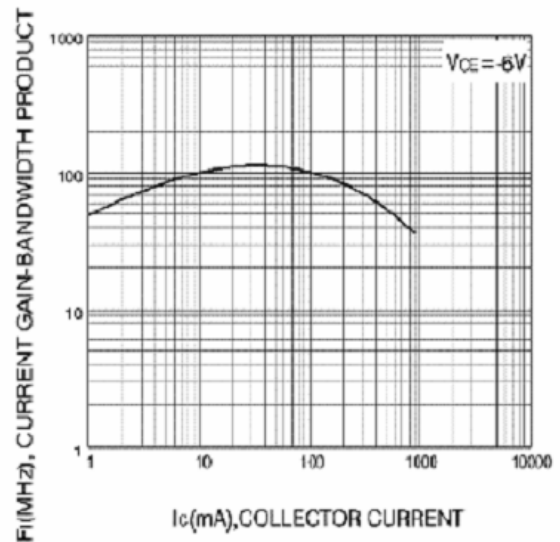
Static Characteristic



DC current Gain



Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage



Current Gain Bandwidth Product