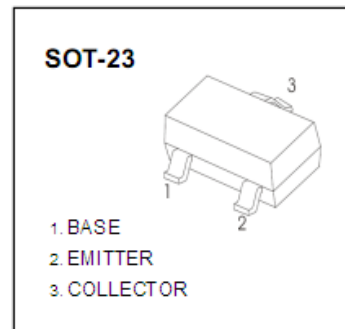


**2SC2412 ( NPN )****特点/Features :**输出电容 (  $C_{OB}$  ) 低 , 典型值 2.0pF;**用途/Applications :**

用于一般放大。

**极限参数/Absolute maximum ratings( $T_a=25^{\circ}\text{C}$ )**

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
集电极-基极电压/Collector-Base Voltage	$V_{CB0}$	60	V
集电极-发射极电压/Collector-Emitter Voltage	$V_{CE0}$	50	V
发射极-基极电压/Emitter-Base Voltage	$V_{EB0}$	7	V
集电极连续电流/Collector Current Continuous	$I_C$	0.15	A
集电极耗散功率/Collector Power Dissipation	$P_C$	0.2	W
结温/Junction Temperature	$T_j$	150	$^{\circ}\text{C}$
储存温度/Storage Temperature	$T_{stg}$	-55~150	$^{\circ}\text{C}$

**电性能参数/Electrical characteristics ( $T_a=25^{\circ}\text{C}$ )**

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	$V_{BR(CB0)}$	$I_C=50\mu\text{A}, I_E=0$	60			V
集电极-发射极击穿电压	$V_{BR(CE0)}$	$I_C=1\text{mA}, I_B=0$	50			V
发射极-基极击穿电压	$V_{BR(EB0)}$	$I_E=50\mu\text{A}, I_C=0$	7			V
集电极截止电流	$I_{CB0}$	$V_{CB}=60\text{V}, I_E=0$			0.1	$\mu\text{A}$
发射极截止电流	$I_{EB0}$	$V_{EB}=7\text{V}, I_C=0$			0.1	$\mu\text{A}$
直流电流增益	$h_{FE}$	$V_{CE}=6\text{V}, I_C=1\text{mA}$	120		560	
集电极-发射极饱和压降	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			0.4	V
基极-发射极饱和压降	$V_{BE(sat)}$	$I_C=100\text{mA}, I_B=10\text{mA}$			1	V
特征频率	$f_T$	$V_{CE}=12\text{V}, I_C=2\text{mA}, f=100\text{MHz}$		160		MHz
输出电容	$C_{ob}$	$V_{CB}=12\text{V}, I_E=0, f=1\text{MHz}$		2.0	3.5	pF

**Marking And  $h_{FE}$  分档/Classification of  $h_{FE}$** 

档位/Rank	Q	R	S
范围/Range	120~270	180~390	270~560
Marking	BQ	BR	BS



### 典型特性曲线图/Typical Characteristics

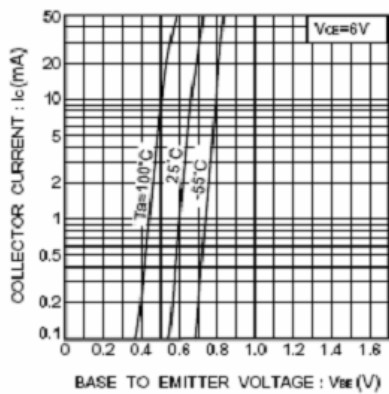


Fig.1 Grounded emitter propagation characteristics

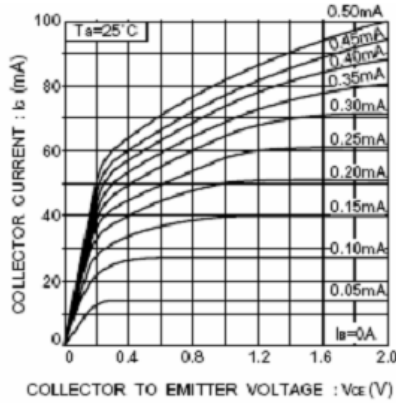


Fig.2 Grounded emitter output characteristics ( I )

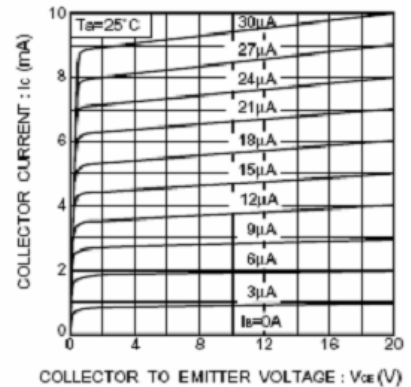


Fig.3 Grounded emitter output characteristics ( II )

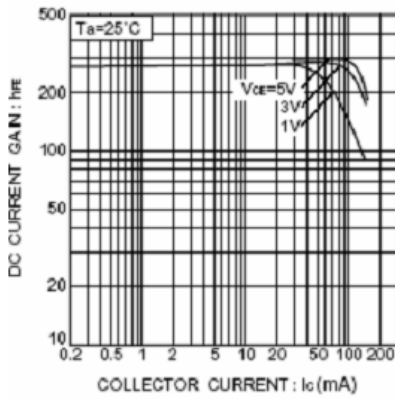


Fig.4 DC current gain vs. collector current ( I )

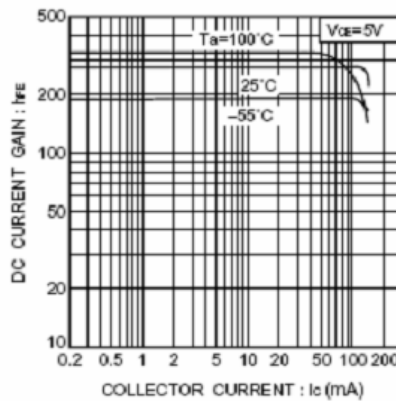


Fig.5 DC current gain vs. collector current ( II )

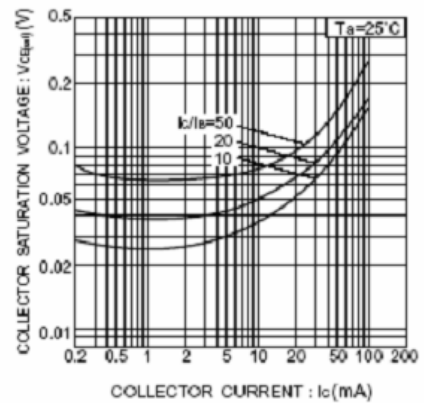


Fig.6 Collector-emitter saturation voltage vs. collector current

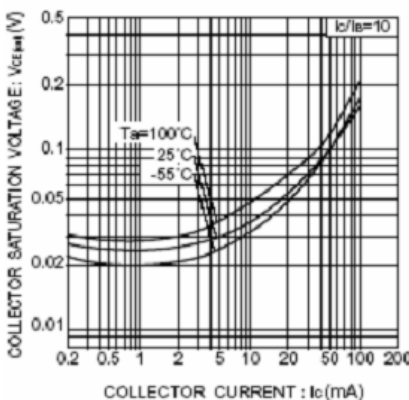


Fig.7 Collector-emitter saturation voltage vs. collector current ( I )

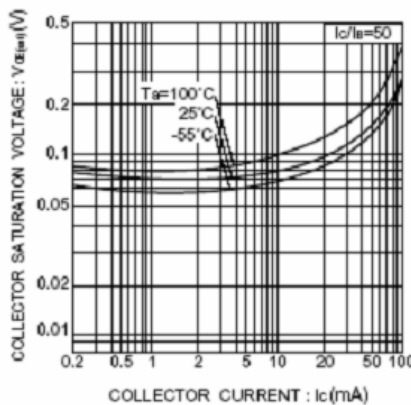


Fig.8 Collector-emitter saturation voltage vs. collector current ( II )

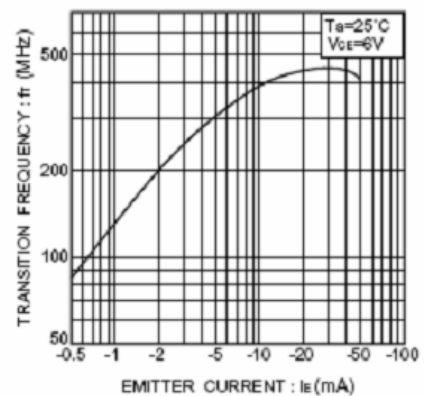


Fig.9 Gain bandwidth product vs. emitter current

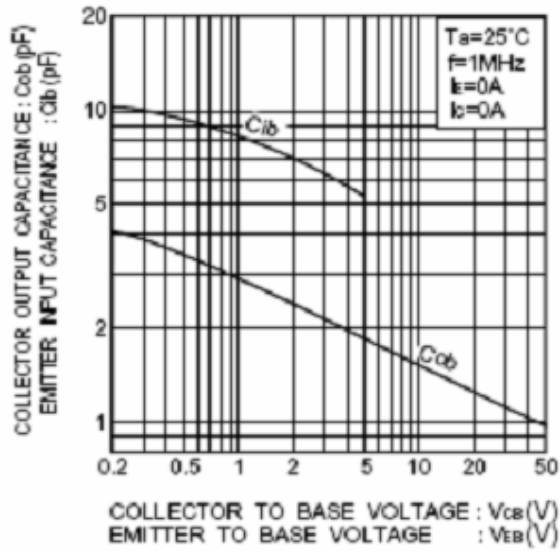


Fig.10 Collector output capacitance vs. collector-base voltage  
Emitter input capacitance vs. emitter-base voltage

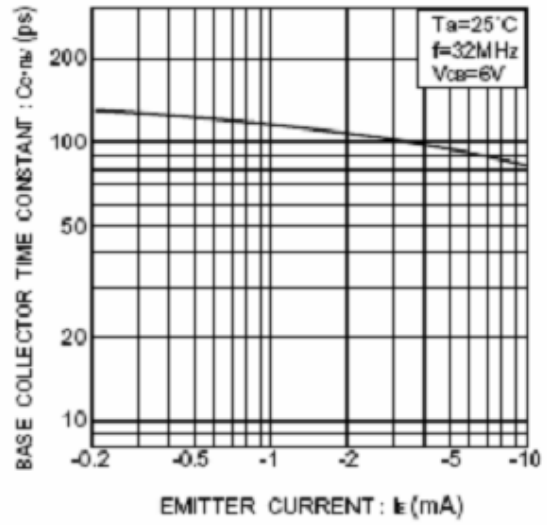


Fig.11 Base-collector time constant vs. emitter current