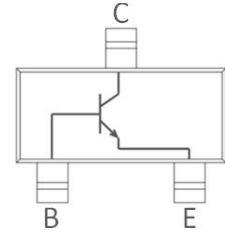


◆ Features

- Collector current $I_C=0.4A$.
- Power amplifier applications.
- Complementary to BC807-40/0.35 芯.



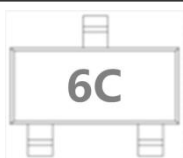
◆ Absolute Maximum Ratings($T_a=25^\circ C$)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.4	A
P_C	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^\circ C/W$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55~+150	$^\circ C$

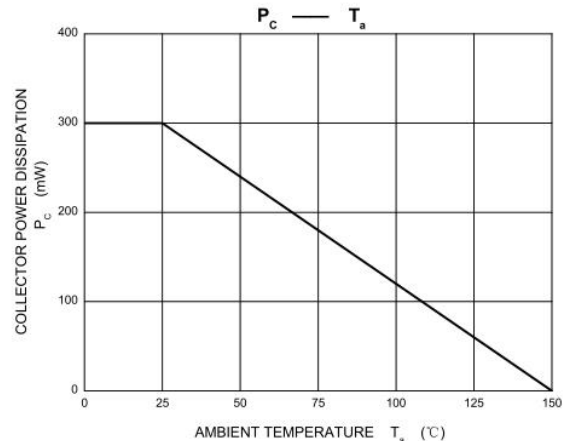
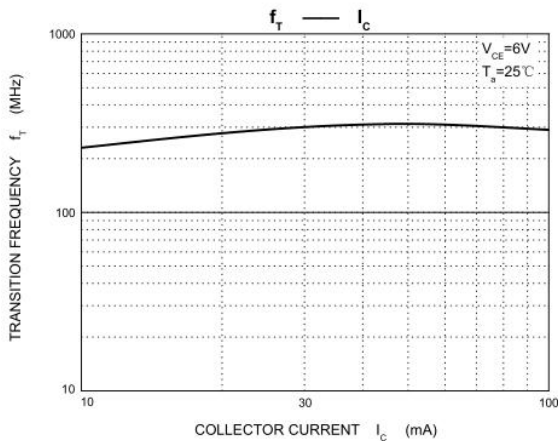
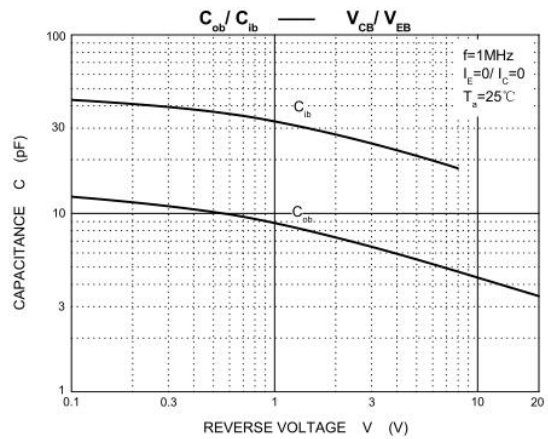
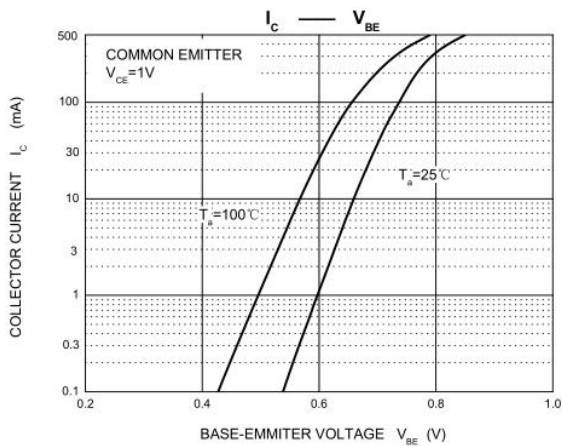
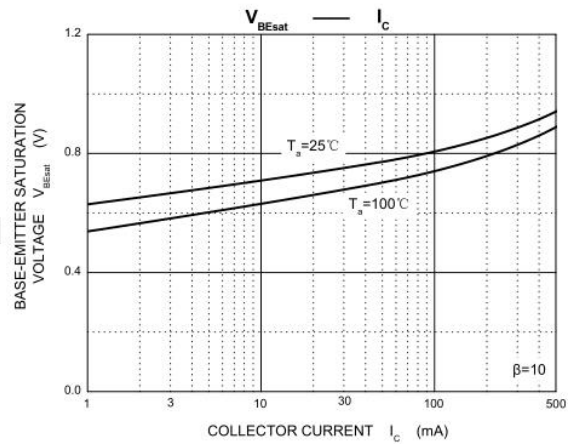
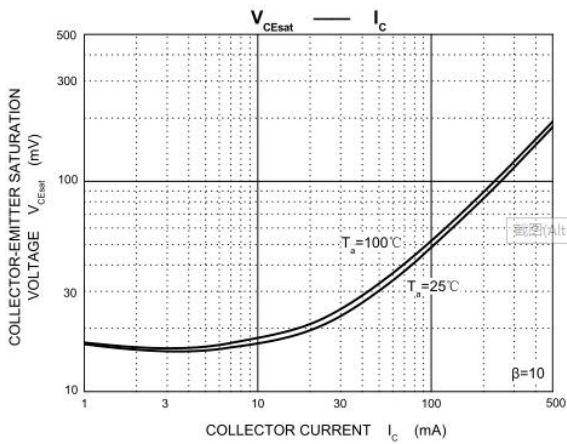
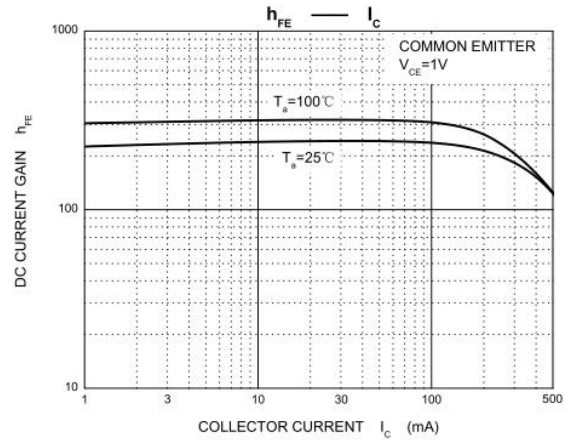
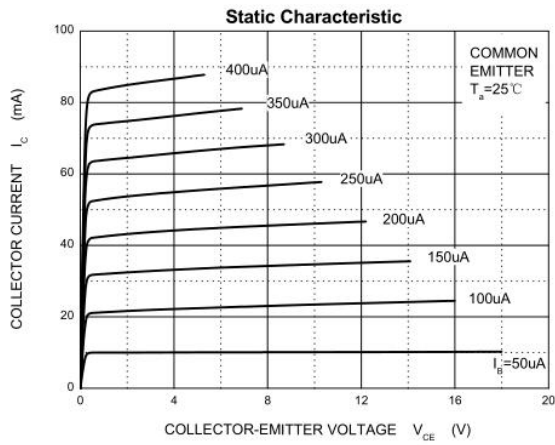
◆ Electrical Characteristics ($T_a=25^\circ C$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=0.1mA, I_B=0$	25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu A, I_C=0$	5			V
I_{CEO}	Collector cut-off current	$V_{CE}=20V, I_E=0$			100	nA
I_{CBO}	Collector cut-off current	$V_{CB}=40V, I_E=0$			100	nA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V, I_C=0$			100	nA
$h_{FE(1)}$	DC current gain(1)	$V_{CE}=1V, I_C=50mA$	200		350	
$h_{FE(2)}$	DC current gain(2)	$V_{CE}=1V, I_C=500mA$	50			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=500mA, I_B=50mA$			0.6	V
$V_{BE(sat)}$	Base-emitter saturation voltage				1.2	V
f_T	Transition frequency	$V_{CE}=6V, I_C=20mA, f=30MHz$	150			MHz

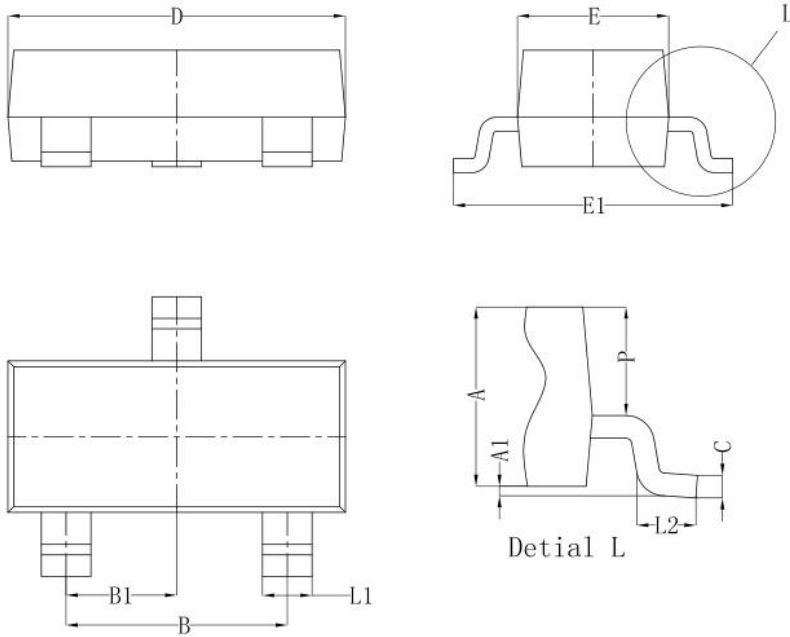
◆ $h_{FE(1)}$ Classifications & Marking

$h_{FE(1)}$	200~350
Marking	

◆ Typical Characteristics



◆ SOT-23 Package Outline Dimensions



Symbol	Dim in mm		
	Min	Nom	Max
A	0.900	1.000	1.100
A1	0.000	0.050	0.100
B	1.800	1.900	2.000
B1	0.950 TYP		
C	0.100	0.110	0.120
D	2.800	2.900	3.000
E	1.250	1.300	1.350
E1	2.250	2.400	2.550
L1	0.350	0.400	0.500
L2	0.200	0.350	0.450
P	0.550	0.575	0.600

◆ Packaging SPEC.

Units				
Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box
3,000	15	45,000	4	180,000
Reel	Dimension (unit: mm ³)			
	Inner Box		Outer Box	
7" × 8	190×190×190		400×400×210	