

GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

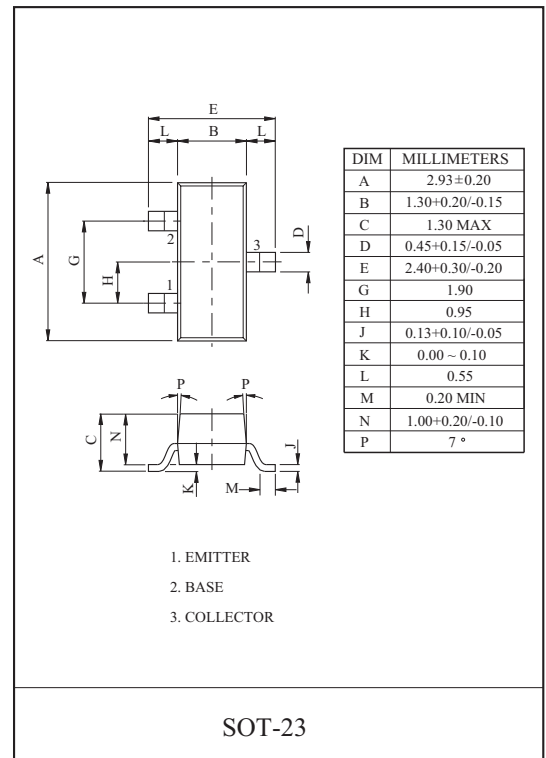
### FEATURES

- Complementary to BC807.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	45	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	800	mA
Emitter Current	$I_E$	-800	mA
Collector Power Dissipation	$P_C^*$	350	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

\* : Package Mounted On 99.9% Alumina 10×8×0.6mm.



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

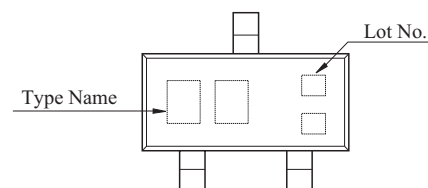
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=20V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
DC Current Gain (Note)	$h_{FE(1)}$	$V_{CE}=1V, I_C=100mA$	100	-	630	
	$h_{FE(2)}$	$V_{CE}=1V, I_C=500mA$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	0.7	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=1V, I_C=500mA$	-	-	1.2	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=10mA, f=100MHz$	100	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	5	-	pF

Note :  $h_{FE(1)}$  Classification 16:100~250, 25:160~400, 40:250~630

### MARK SPEC

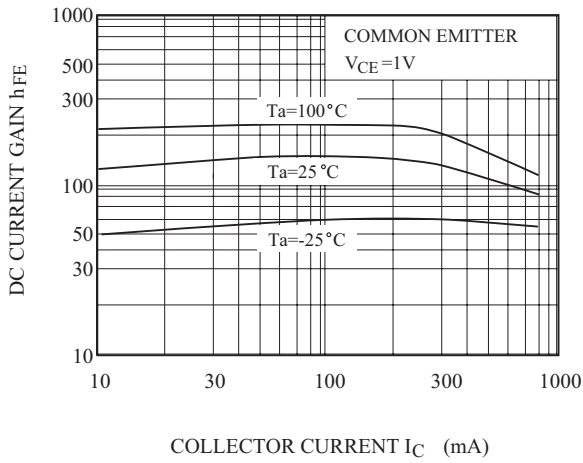
TYPE	BC817-16	BC817-25	BC817-40
MARK	6A	6B	6C

### Marking

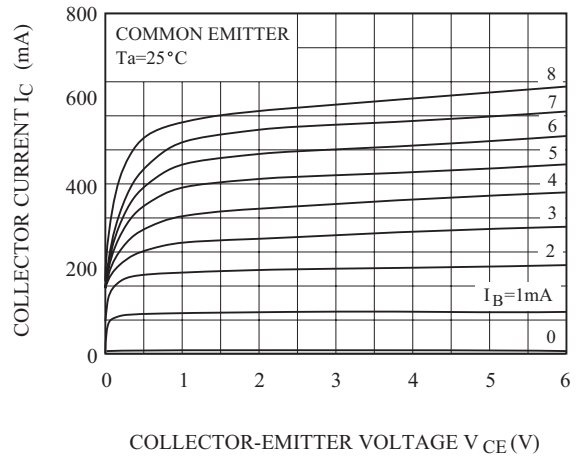


# BC817

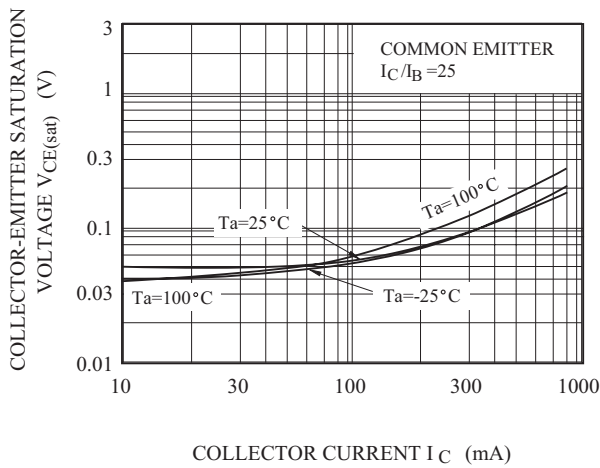
$h_{FE} - I_C$



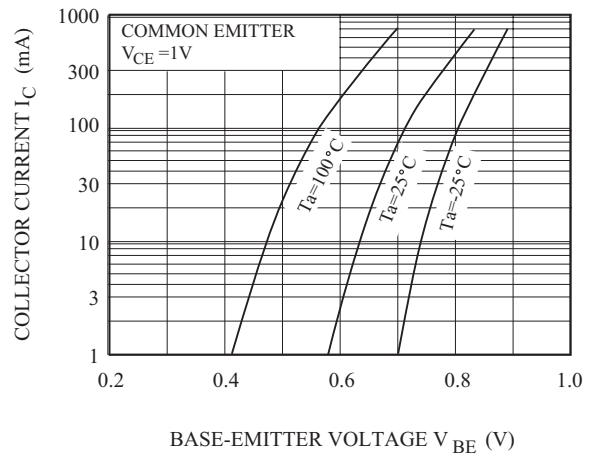
$I_C - V_{CE}$



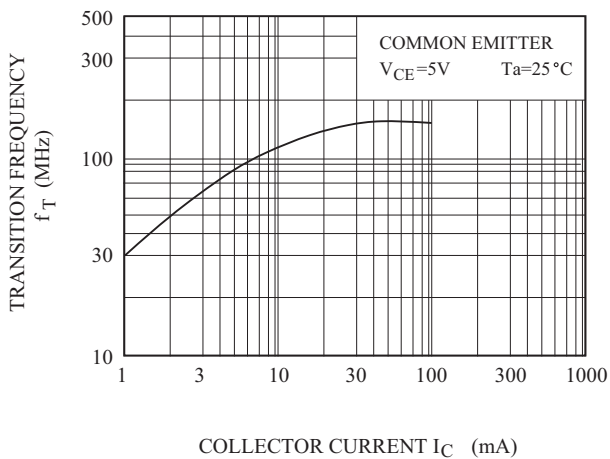
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$f_T - I_C$



$P_C - T_a$

