

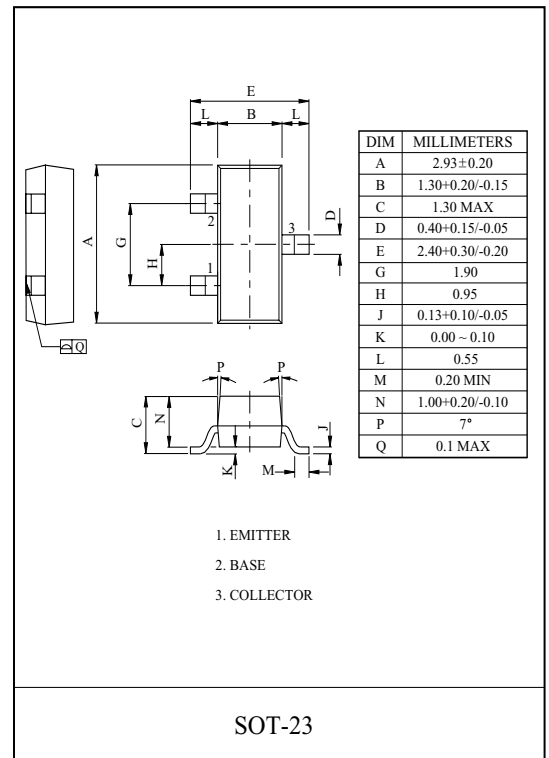
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

· For Complementary with NPN Type BC849/850

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BC859	V _{CBO}	-30	V
	BC860		-50	
Collector-Emitter Voltage	BC859	V _{CEO}	-30	V
	BC860		-45	
Emitter-Base Voltage		V _{EBO}	-5	V
Collector Current		I _C	-100	mA
Collector Power Dissipation		P _C *	350	mW
Junction Temperature		T _j	150	
Storage Temperature Range		T _{stg}	-55 150	

P_C * : Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm.



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

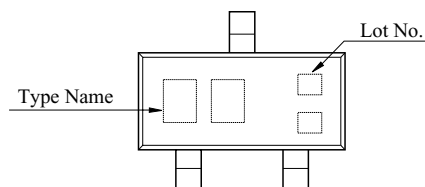
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	BC859	V _{(BR)CEO}	I _C =-10mA, I _B =0	-30	-	-	V
	BC860			-45	-	-	
Collector-Base Breakdown Voltage	BC859	V _{(BR)CBO}	I _C =-10 μA, I _E =0	-30	-	-	V
	BC860			-50	-	-	
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	I _E =-10 μA, I _C =0	-5	-	-	V
Collector Cut-off Current		I _{CBO}	V _{CB} =-30V, I _E =0	-	-	-15	nA
DC Current Gain		h _{FE}	I _C =-2mA, V _{CE} =-5V	125	-	475	
Base-Emitter Voltage	V _{BE(ON)1}		I _C =-2mA, V _{CE} =-5V	-0.6	-0.65	-0.75	V
	V _{BE(ON)2}		I _C =-10mA, V _{CE} =-5V	-	-	-0.82	
Collector-Emitter Saturation Voltage	V _{CE(sat)1}		I _C =-10mA, I _B =-0.5mA	-	-0.075	-0.3	V
	V _{CE(sat)2}		I _C =-100mA, I _B =-5mA	-	-0.25	-0.65	
Base-Emitter Saturation Voltage	V _{BE(sat)1}		I _C =-10mA, I _B =-0.5mA	-	-0.7	-	V
	V _{BE(sat)2}		I _C =-100mA, I _B =-5mA	-	-0.85	-	
Transition Frequency		f _T	I _C =-10mA, V _{CE} =-5V, f=100MHz	-	150	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	4.5	-	pF
Noise Figure		NF	I _C =-200 μA, V _{CE} =-5V R _g =10k, f=1kHz	-	-	4.0	dB

Note : h_{FE} Classification A:125 250, B:220 475

Marking

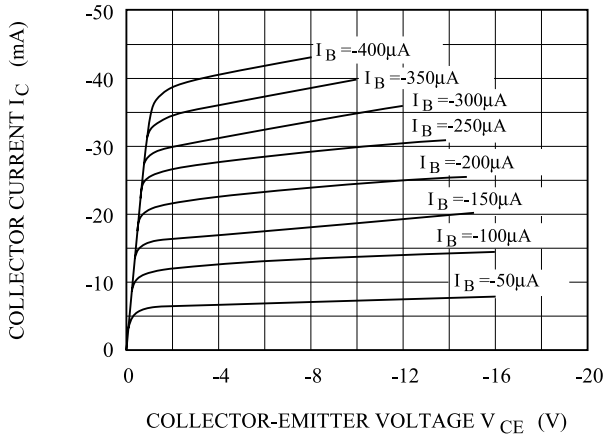
MARK SPEC

TYPE	BC859A	BC859B	BC860A	BC860B
MARK	4A	4B	4E	4G

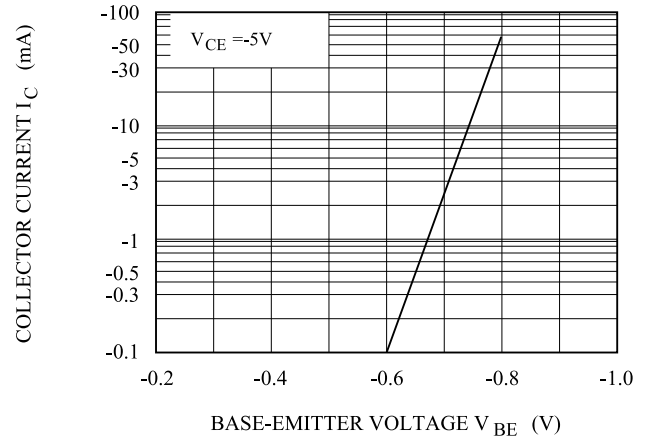


BC859/860

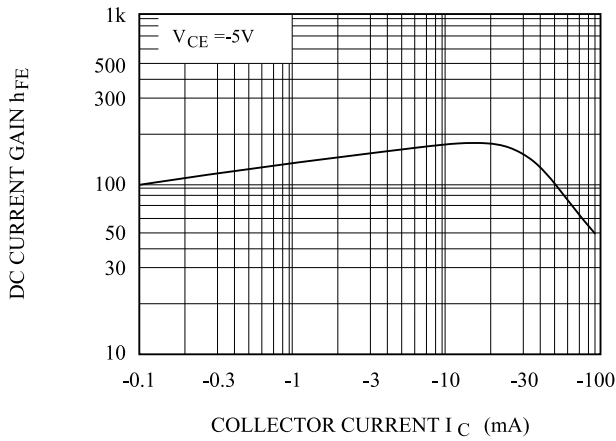
$I_C - V_{CE}$



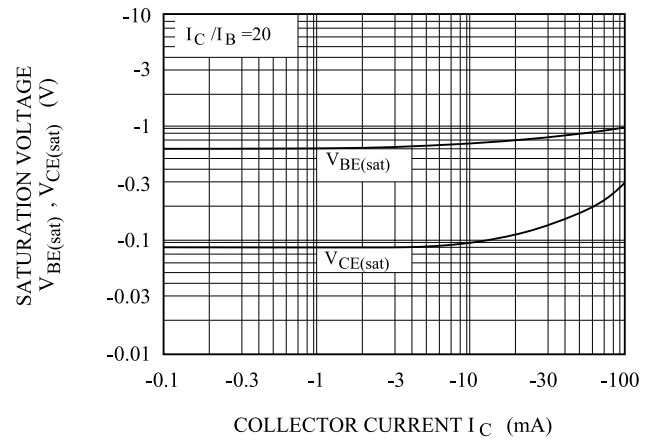
$I_C - V_{BE}$



$h_{FE} - I_C$



$V_{BE(sat)}, V_{CE(sat)} - I_C$



$C_{ob} - V_{CB}$

