

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

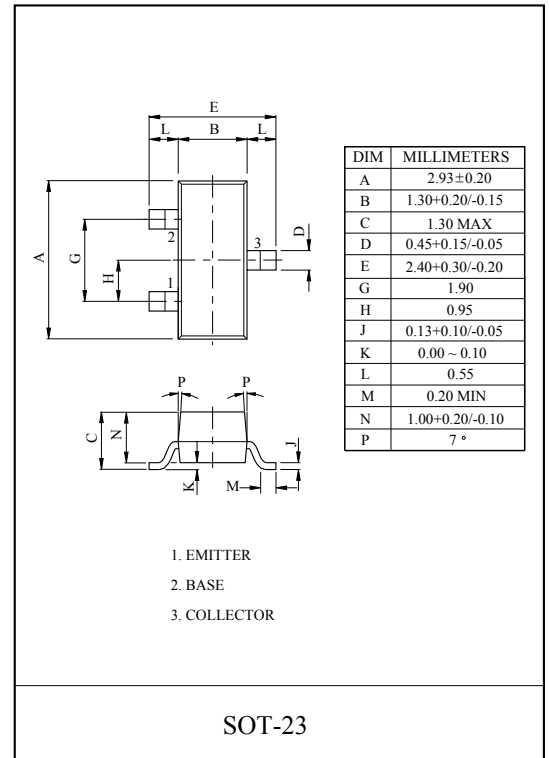
FEATURES

- For Complementary With PNP Type BC859/860.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BC849	V_{CBO}	30	V
	BC850		50	
Collector-Emitter Voltage	BC849	V_{CEO}	30	V
	BC850		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	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

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



ELECTRICAL CHARACTERISTICS (Ta=25°C)

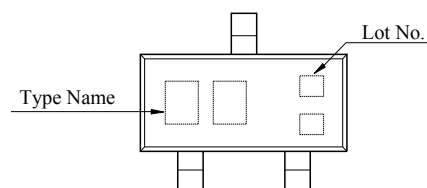
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	BC849	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	30	-	-	V
	BC850			45	-	-	
Collector-Base Breakdown Voltage	BC849	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	30	-	-	V
	BC850			50	-	-	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V
Collector Cut-off Current		I_{CBO}	$V_{CB}=30V, I_E=0$	-	-	15	nA
DC Current Gain		$h_{FE}(\text{Note})$	$I_C=2mA, V_{CE}=5V$	200	-	800	
Base-Emitter Voltage	$V_{BE(ON)1}$	1	$I_C=2mA, V_{CE}=5V$	0.58	0.66	0.7	V
	$V_{BE(ON)2}$			2	$I_C=10mA, V_{CE}=5V$	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)1}$	1	$I_C=10mA, I_B=0.5mA$	-	0.09	0.25	V
	$V_{CE(sat)2}$			2	$I_C=100mA, I_B=5mA$	-	
Base-Emitter Saturation Voltage	$V_{BE(sat)1}$	1	$I_C=10mA, I_B=0.5mA$	-	0.7	-	V
	$V_{BE(sat)2}$			2	$I_C=100mA, I_B=5mA$	-	
Transition Frequency		f_T	$I_C=10mA, V_{CE}=5V, f=100MHz$	-	300	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	2.5	4.5	pF
Noise Figure	BC849	NF	$I_C=200\mu A, V_{CE}=5V$ $R_g=10k\Omega, f=1kHz$	-	-	4.0	dB
	BC850			-	-	1.0	

Note : h_{FE} Classification B:200 ~ 450, C:420 ~ 800

Marking

MARK SPEC

TYPE	BC849B	BC849C	BC850B	BC850C
MARK	2B	2C	2F	2G





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