

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

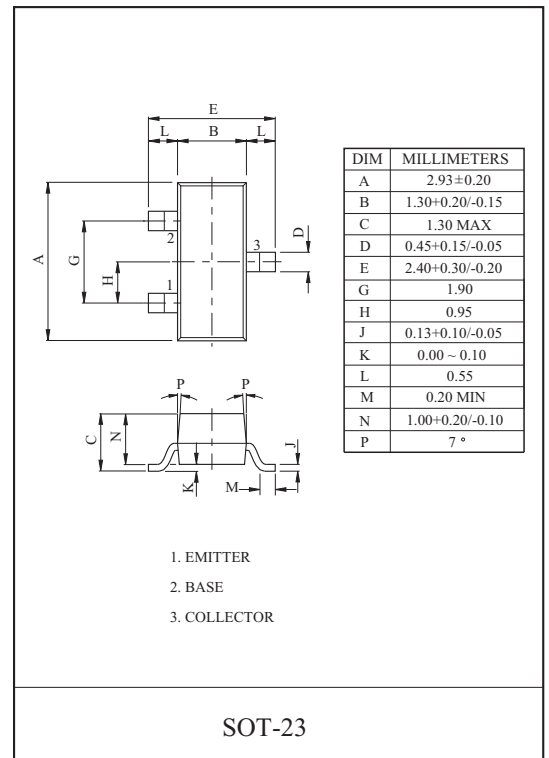
FEATURES

- Complementary to BCW31/32

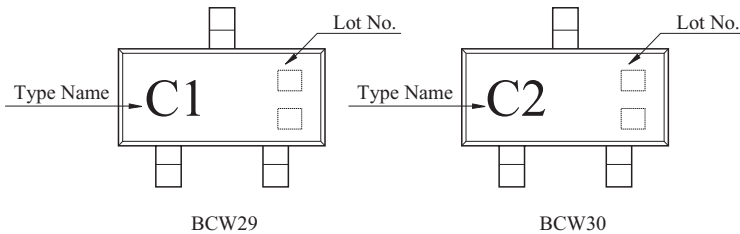
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-30	V
Collector-Emitter Voltage	V_{CEO}	-20	V
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}	-65 ~ 150	°C

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



Marking



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10 \mu A$	-30	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -2 mA$	-20	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10 \mu A$	-5	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30 V$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5 V$	-	-	-100	nA
DC Current Gain	BCW29	$V_{CE} = -5 V, I_C = -2 mA$	110	-	220	
	BCW30		200	-	450	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10 mA, I_B = -0.5 mA$	-	-	-0.25	V
Base-Emitter On Voltage	$V_{BE(ON)}$	$V_{CE} = -5 V, I_C = -2 mA$	-0.55	-	-0.7	V
Collector Output Capacitance	C_{ob}	$V_{CB} = -10 V, I_E = 0, f = 1 MHz$	-	-	4	pF
Noise Figure	NF	$V_{CE} = -5 V, I_C = -0.2 mA$ $R_S = 2 k \Omega, f = 1 kHz$	-	-	10	dB