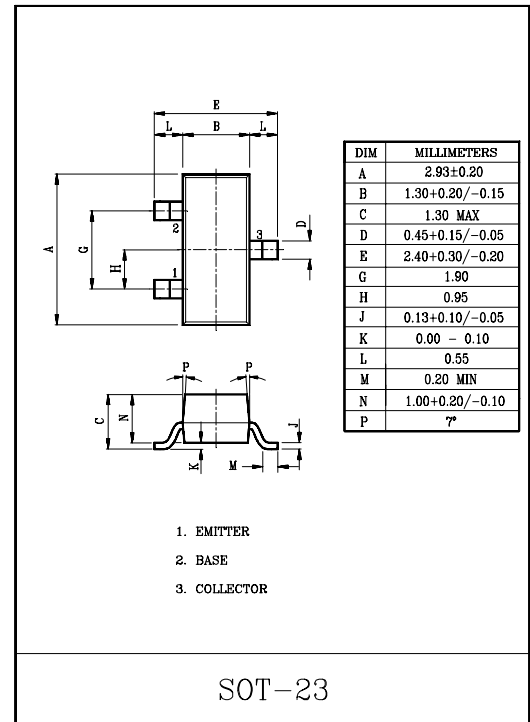


GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

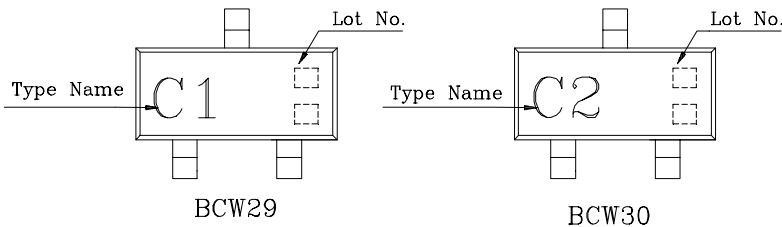
### MAXIMUM RATINGS (Ta=25°C)

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

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



### Marking



# BCW29/30

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

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