

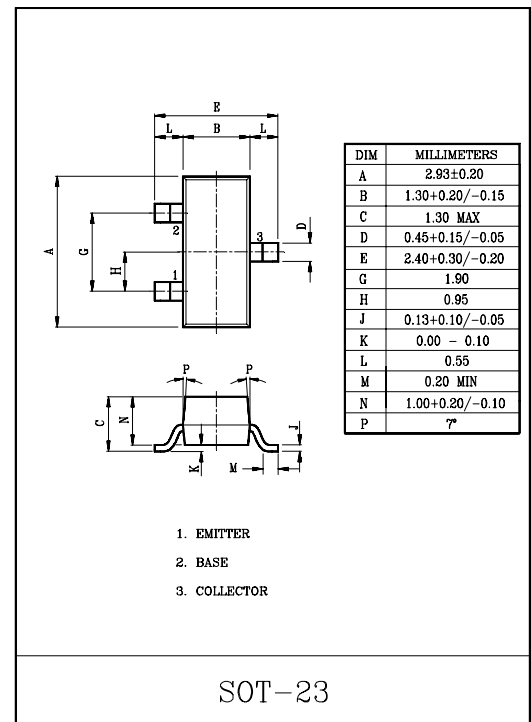
LOW FREQUENCY POWER AMPLIFIER APPLICATION.
POWER SWITCHING APPLICATION.

FEATURES

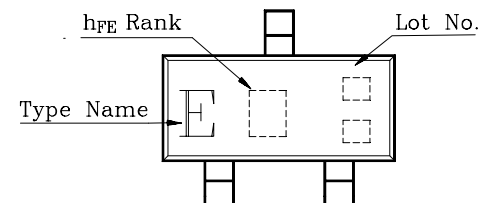
- High DC Current Gain : $h_{FE}=100 \sim 320$.
- Low Saturation Voltage
: $V_{CE(sat)}=0.4V(\text{Max.})$ ($I_C=500mA$, $I_B=20mA$).
- Suitable for Driver Stage of Small Motor.
- Complementary to KTA1296.
- Small Package.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	35	V
Collector-Emitter Voltage	V_{CE0}	30	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	800	mA
Base Current	I_B	100	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ\text{C}$



Marking



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYPE	MAX.	UNIT
Collector Cut-off Current	I_{C0}	$V_{CE}=30V$, $I_B=0$			100	nA
Emitter Cut-off Current	I_{E0}	$V_{EB}=5V$, $I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{CE(sat)}$	$I_C=10mA$, $I_B=0$	30			V
Emitter-Base Breakdown Voltage	$V_{EB(sat)}$	$I_E=1mA$, $I_C=0$	5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Nole)	$V_{CE}=1V$, $I_C=100mA$	100	-	320	
	$h_{FE(2)}$	$V_{CE}=1V$, $I_C=800mA$	40			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$, $I_B=20mA$	-	-	0.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=1V$, $I_C=10mA$	0.5	-	0.8	V
Transition Frequency	f_T	$V_{CE}=5V$, $I_C=10mA$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CE}=10V$, $I_C=0$, $f=1MHz$		13		pF

Note : $h_{FE(1)}$ Classification O:100 ~ 200 , V:100 ~ 320

