

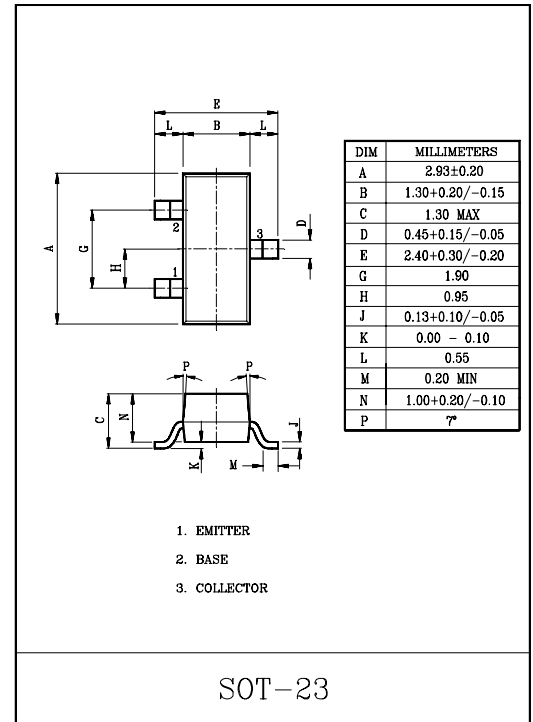
LOW FREQUENCY POWER AMPLIFIER APPLICATION.  
POWER SWITCHING APPLICATION.

### FEATURES

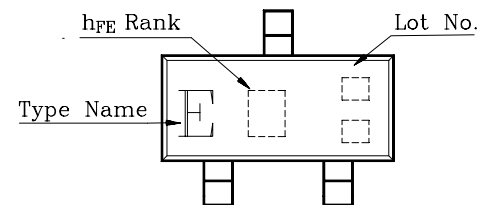
- High DC Current Gain :  $h_{FE}=100\sim 320$ .
- Low Saturation Voltage  
:  $V_{CE(sat)}=0.4V(\text{Max.})$  ( $I_C=500\text{mA}$ ,  $I_B=20\text{mA}$ ).
- Suitable for Driver Stage of Small Motor.
- Complementary to KTA1298.
- Small Package.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	800	mA
Base Current	$I_B$	160	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	-55~150	$^\circ\text{C}$



### Marking



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

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

Note :  $h_{FE(1)}$  Classification      O:100~200 ,      Y:160~320

# KTC3265

