

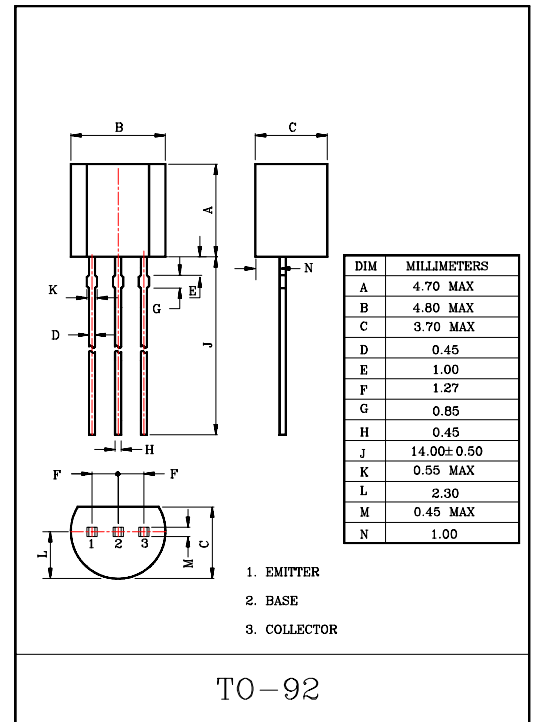
GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

### FEATURES

- Excellent  $h_{FE}$  Linearity.
- Complementary to KTC9013.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-40	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-500	mA
Emitter Current	$I_E$	500	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-35\text{V}$ , $I_E=0$	-	-	-0.1	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5\text{V}$ , $I_C=0$	-	-	-0.1	$\mu\text{A}$
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=-1\text{V}$ , $I_C=-50\text{mA}$	64	-	246	
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C=-100\text{mA}$ , $I_B=-10\text{mA}$	-	-0.1	-0.25	V
Base-Emitter Voltage	$V_{BE}$	$I_C=-100\text{mA}$ , $V_{CE}=-1\text{V}$	-	-0.8	-1.0	V
Transition Frequency	$f_T$	$V_{CB}=-6\text{V}$ , $I_C=-20\text{mA}$ , $f=100\text{MHz}$	150	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-6\text{V}$ , $I_E=0$ , $f=1\text{MHz}$	-	7.0	-	pF

Note :  $h_{FE}$  Classification    D:64 ~ 91,    E:78 ~ 112,    F:96 ~ 135,  
    G:118 ~ 166,    H:144 ~ 202,    I:176 ~ 246