

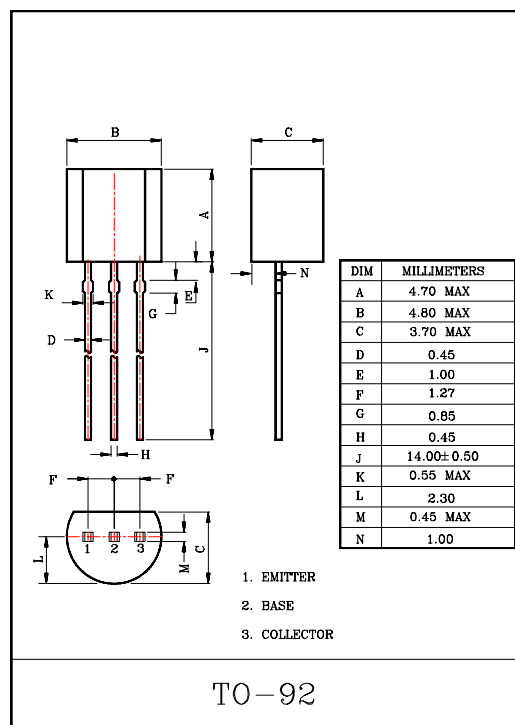
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

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	$^\circ\text{C}$



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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	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5\text{V}$, $I_C=0$	-	-	-0.1	μA
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