

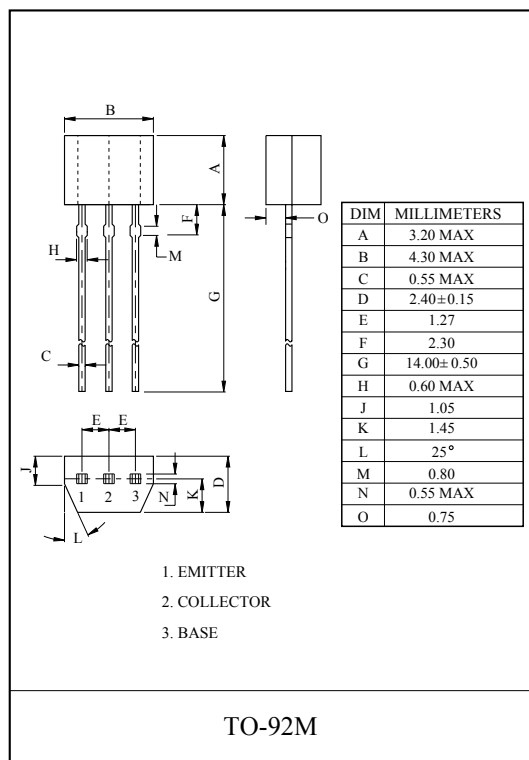
GENERAL PURPOSE APPLICATION
SWITCHING APPLICATION.

FEATURES

- High DC Current Gain : $h_{FE}=70\sim700$.
- Excellent h_{FE} Linearity
: $h_{FE}(0.1\text{mA})/h_{FE}(2\text{mA})=0.95(\text{Typ.})$.
- Low Noise : $NF=1\text{dB}(\text{Typ.})$, $10\text{dB}(\text{Max.})$.
- Complementary to KTA1267.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Emitter Current	I_E	-150	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55\sim150$	$^\circ\text{C}$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=50\text{V}$, $I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$	-	-	0.1	μA
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=6\text{V}$, $I_C=2\text{mA}$	70	-	700	
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C=100\text{mA}$, $I_B=10\text{mA}$	-	0.1	0.25	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$, $I_C=1\text{mA}$	80	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	2.0	3.5	pF
Noise Figure	NF	$V_{CE}=6\text{V}$, $I_C=0.1\text{mA}$, $f=1\text{kHz}$, $R_g=10\text{k}\Omega$	-	1.0	10	dB

Note : h_{FE} Classification O:70~140 , Y:120~240 , GR:200~400, BL:300~700.

