

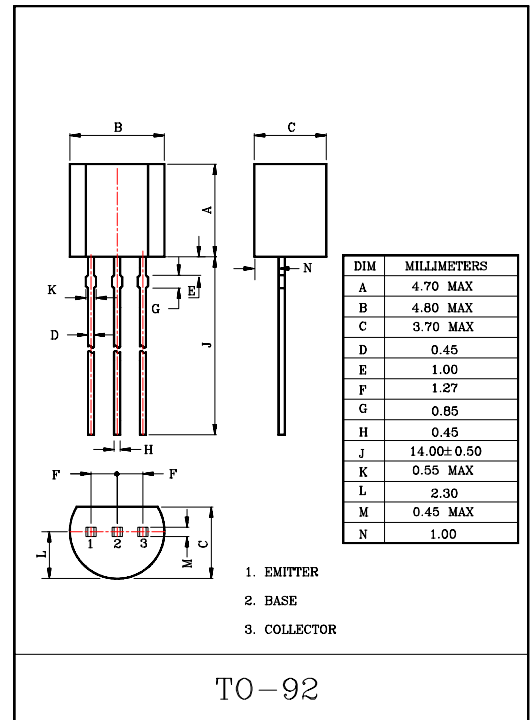
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

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

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB}	-40	V
Collector-Emitter Voltage	V_{CE}	30	V
Emitter-Base Voltage	V_{EB}	-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	°C
Storage Temperature Range	T_{STG}	-55 ~ 150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

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

Note : h_{FE} Classification D141 ~ 91, E178 ~ 112, F191 ~ 135,
G118 ~ 166, H144 ~ 202, I176 ~ 246