

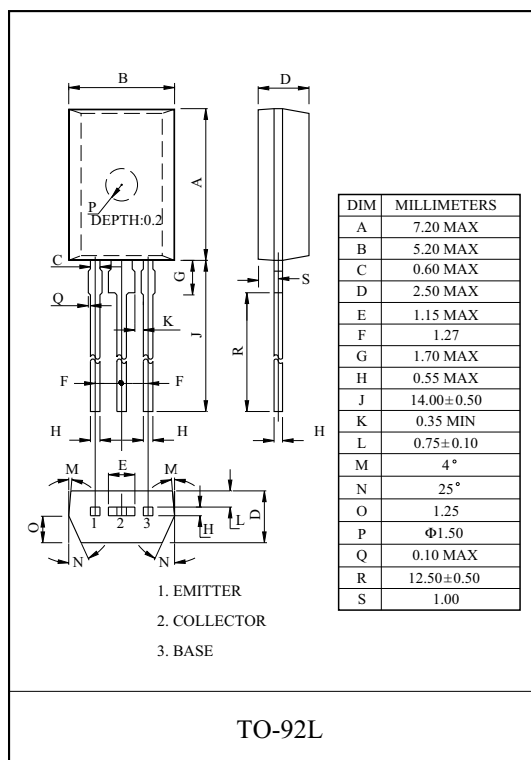
GENERAL PURPOSE APPLICATION.

FEATURES

- High Breakdown Voltage and High Current
: $V_{CE0}=80V$, $I_C=1A$.
- Low $V_{CE(sat)}$
- Complementary to KTB1241.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1	A
Emitter Current	I_E	-1	A
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=80V$, $I_E=0$	-	-	1	μA
Emitter-Cut-off Current	I_{EBO}	$V_{EB}=4V$, $I_C=0$	-	-	1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA$, $I_B=0$	80	-	-	V
DC Current Gain	h_{FE} (Note)	$V_{CE}=3V$, $I_C=500mA$	70	-	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$, $I_B=20mA$	-	-	0.4	V
Transition Frequency	f_T	$V_{CE}=10V$, $I_C=50mA$, $f=100MHz$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	-	20	-	pF

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

