

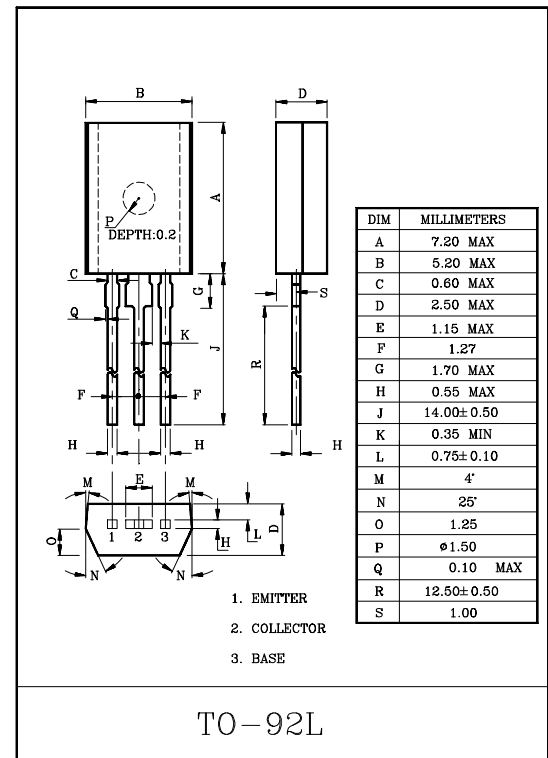
GENERAL PURPOSE APPLICATION.

FEATURE

- Complementary to KTA1274.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	400	mA
Emitter Current	I_E	-400	mA
Collector Power Dissipation	P_C	1	W
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}	$V_{CB}=50\text{V}$, $I_E=0$	-	-	100	nA
Emitter-Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5\text{mA}$, $I_B=0$	80	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=2\text{V}$, $I_C=50\text{mA}$	70	-	240	
	$h_{FE(2)}$	$V_{CE}=2\text{V}$, $I_C=200\text{mA}$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=200\text{mA}$, $I_B=20\text{mA}$	-	-	0.4	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2\text{V}$, $I_C=5\text{mA}$	0.55	-	0.8	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$, $I_C=10\text{mA}$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$, $I_E=0$	-	10	-	pF

Note : $h_{FE(1)}$ Classification O:70~140, Y:120~240

