

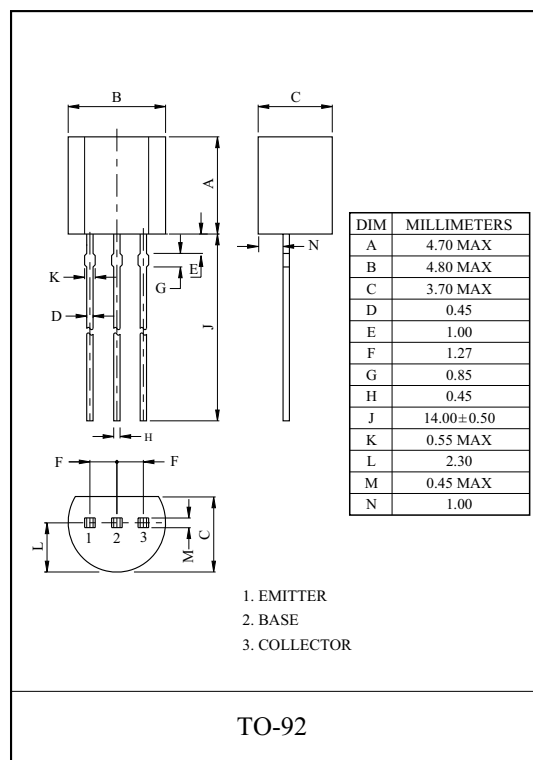
LOW FREQUENCY AMPLIFIER

FEATURES

- Collector-Base Voltage : $V_{CBO}=60V$.
- Complementary to KTA539.

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	200	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃



ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	45	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB}=45V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=3V, I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE}=1V, I_C=50mA$	70	-	240	
Base-Emitter Voltage	V_{BE}	$V_{CE}=1V, I_C=10mA$	0.6	0.65	0.9	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=150mA, I_B=15mA$	-	0.15	0.4	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=150mA, I_B=15mA$	-	0.83	1.1	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=10mA$	100	200	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	4	-	pF

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

KTC815

