

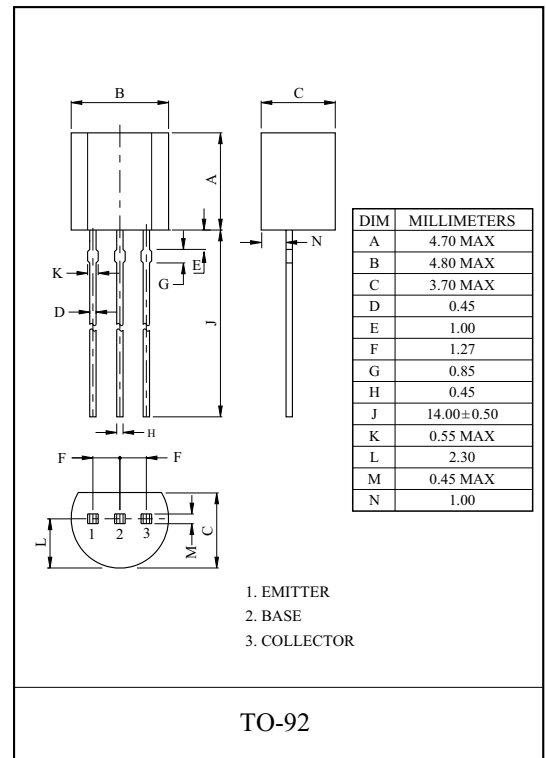
### LOW FREQUENCY AMPLIFIER

#### FEATURES

- Collector-Base Voltage :  $V_{CBO}=-60V$ .
- Complementary to KTC815.

#### MAXIMUM RATING (Ta=25 °C)

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	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C



#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

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	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-3V, I_C=0$	-	-	-0.1	$\mu A$
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	$V_{CE(sat)}$	$I_C=-150mA, I_B=-15mA$	-	-0.25	-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-150mA, I_B=-15mA$	-	-0.9	-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-10V, I_C=-10mA$	100	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	6	-	pF

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

# KTA539

