

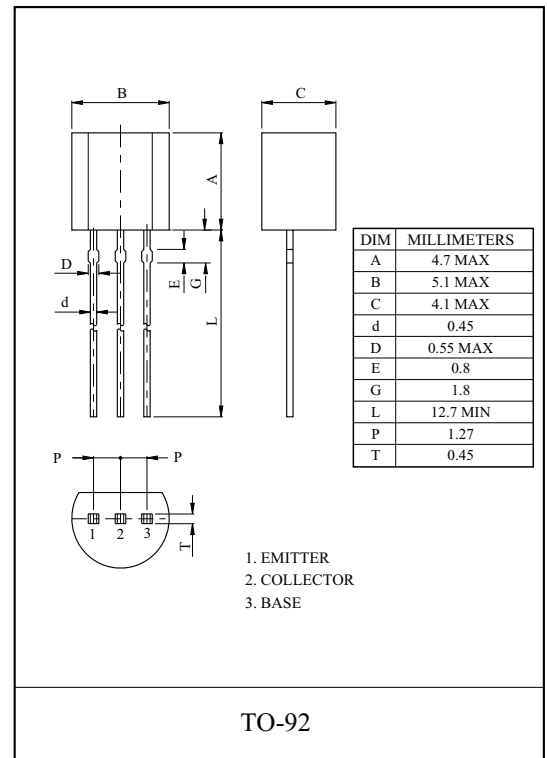
FOR MUTING AND SWITCHING APPLICATION.

### FEATURES

- High Emitter-Base Voltage :  $V_{EBO}=25V(\text{Min.})$
- High Reverse  $h_{FE}$   
: Reverse  $h_{FE}=150(\text{Typ.}) (V_{CE}=-2V, I_C=-4mA)$
- Low on Resistance :  $R_{ON}=1\ \Omega(\text{Typ.}), (I_B=5mA)$

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	20	V
Emitter-Base Voltage	$V_{EBO}$	25	V
Collector Current	$I_C$	300	mA
Base Current	$I_B$	60	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

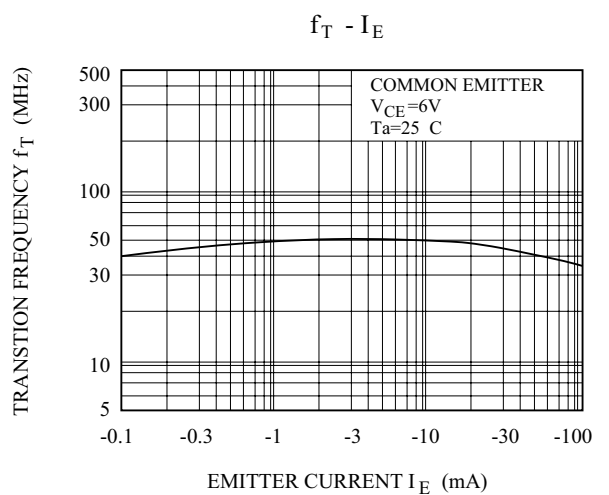
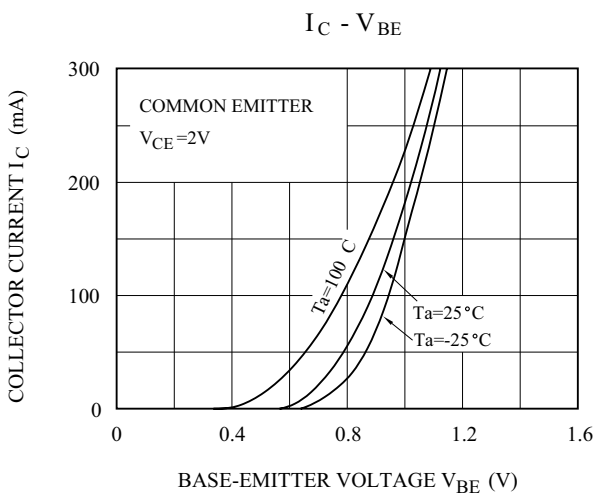
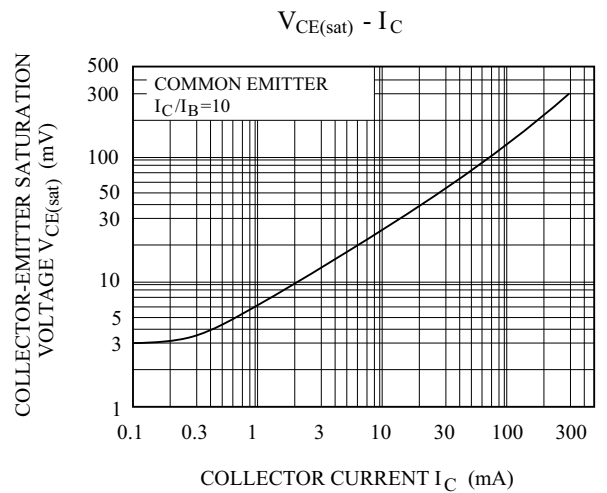
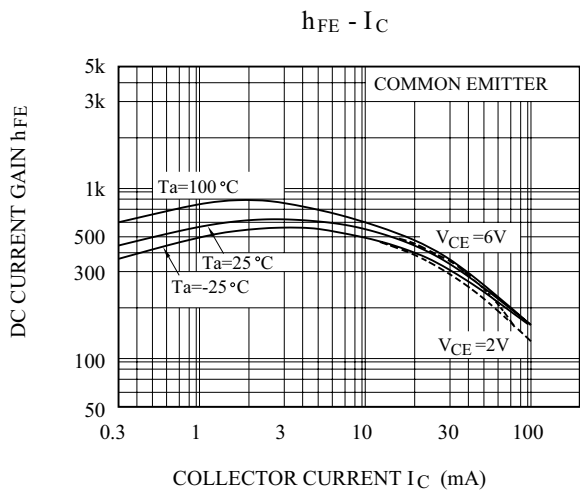
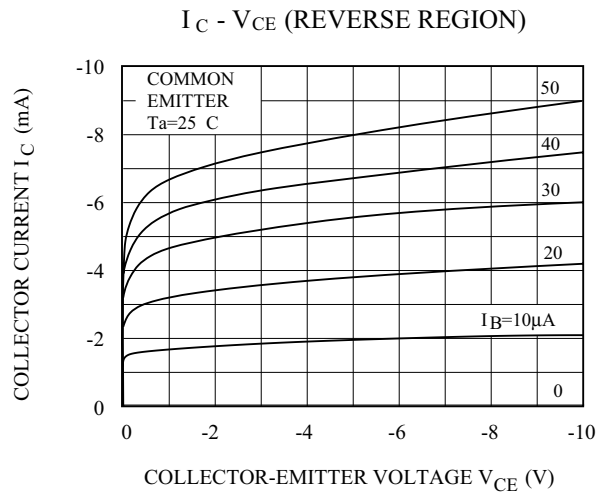
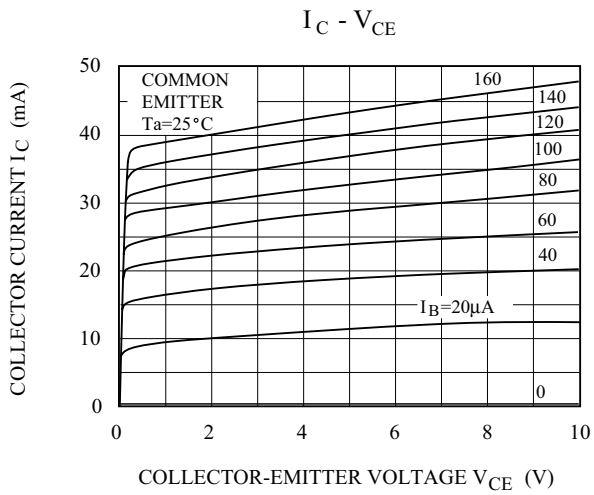


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=50V, I_E=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=25V, I_C=0$	-	-	0.1	$\mu A$
DC Current Gain (Note)	$h_{FE}^*$	$V_{CE}=2V, I_C=4mA$	200	-	1200	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=30mA, I_B=3mA$	-	0.042	0.1	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=2V, I_C=4mA$	-	0.61	-	V
Transition Frequency	$f_T$	$V_{CE}=6V, I_C=4mA$	-	30	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	4.8	7	pF
Switching Time	Turn-on Time	$t_{ON}$	-	160	-	nS
	Storage Time	$t_{stg}$	-	500	-	
	Fall Time	$t_f$	-	130	-	

DUTY CYCLE  $\leq 2\%$

\*Note) :  $h_{FE}$  Classification A:200~700, B: 350 ~ 1200



# KTC2874

