

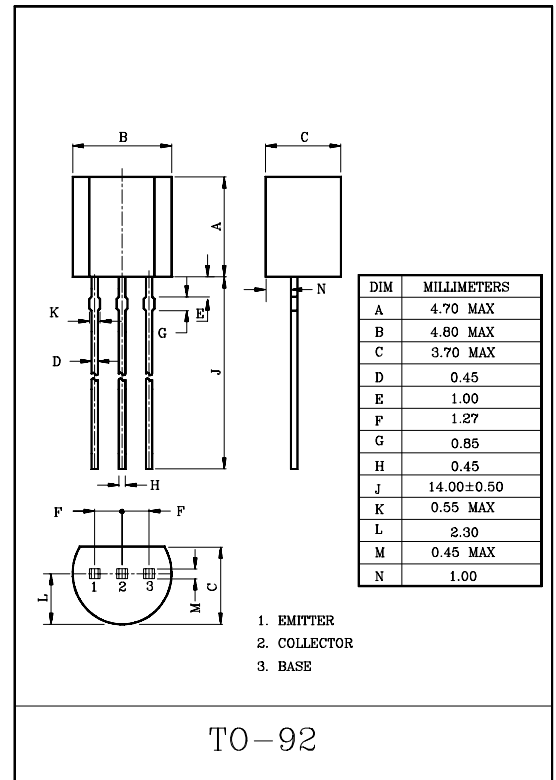
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(2)=100(\text{Typ.})$ at $V_{CE}=6V$, $I_C=150\text{mA}$.
: $h_{FE}(I_C=0.1\text{mA})/h_{FE}(I_C=2\text{mA})=0.95(\text{Typ.})$
- Low Noise : $NF=1\text{dB}(\text{Typ.})$ at $f=1\text{kHz}$.
- Complementary to KTA1266 (O,Y,GR class).

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

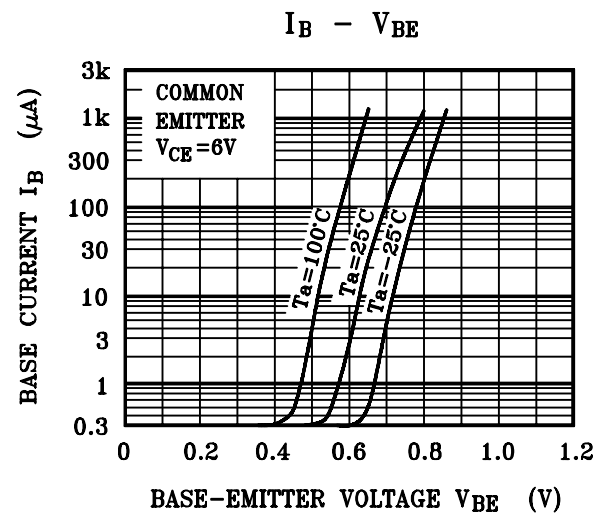
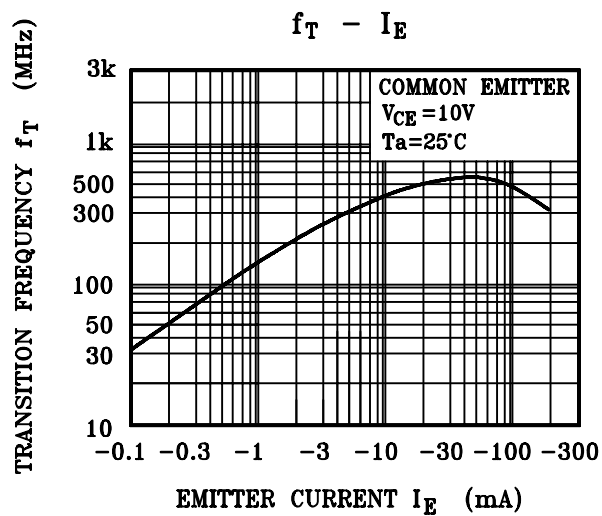
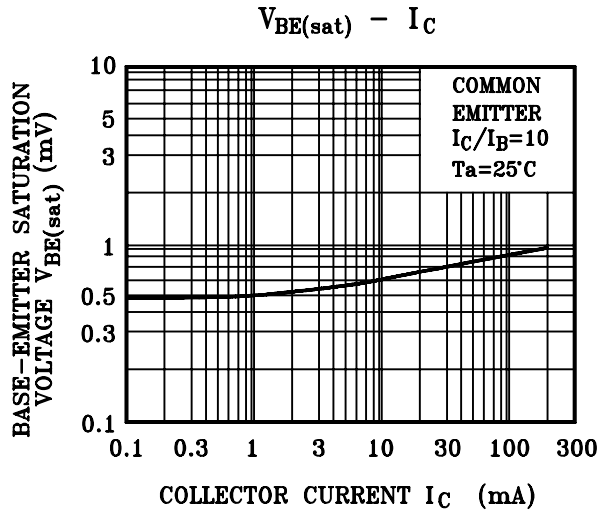
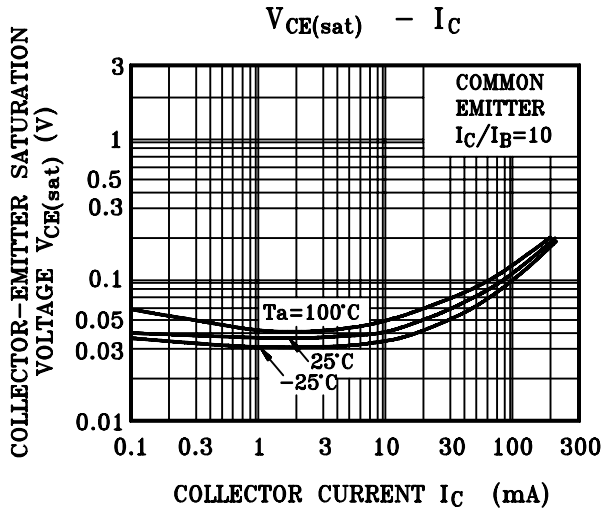
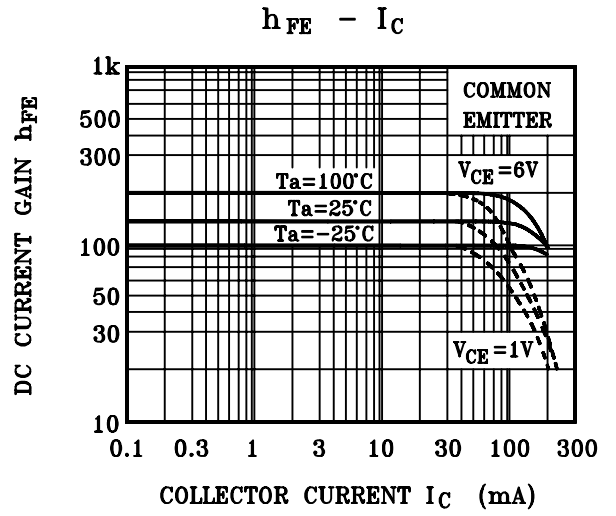
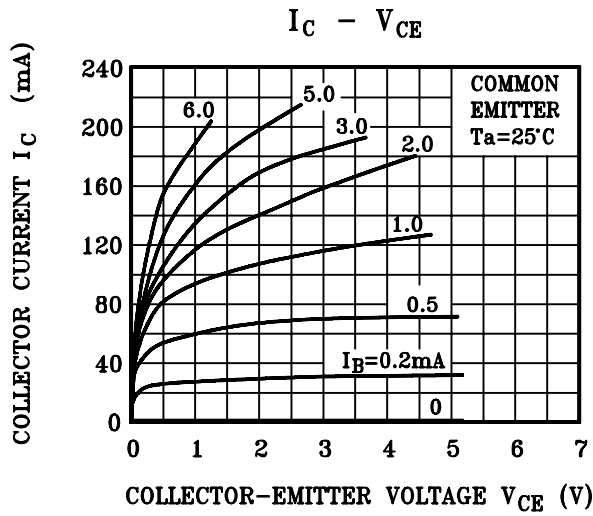
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ\text{C}$



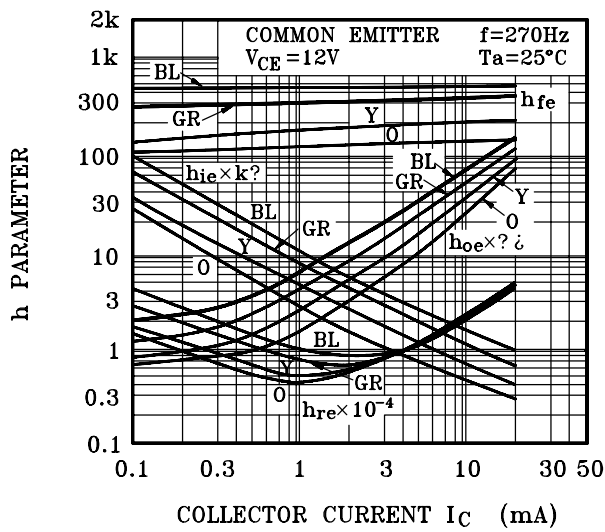
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V$, $I_E=0$	—	—	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	—	—	0.1	μA
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=6V$, $I_C=2\text{mA}$	70	—	700	
	$h_{FE}(2)$	$V_{CE}=6V$, $I_C=150\text{mA}$	25	100	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100\text{mA}$, $I_B=10\text{mA}$	—	0.1	0.25	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=100\text{mA}$, $I_B=10\text{mA}$	—	—	1.0	V
Transition Frequency	f_T	$V_{CE}=10V$, $I_E=-1\text{mA}$	80	—	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1\text{MHz}$	—	2.0	3.5	pF
Base Intrinsic Resistance	$r_{bb'}$	$V_{CB}=10V$, $I_C=-1\text{mA}$, $f=30\text{MHz}$	—	50	—	Ω
Noise Figure	NF	$V_{CE}=6V$, $I_C=0.1\text{mA}$, $R_g=10k\Omega$, $f=1\text{kHz}$	—	1.0	10	dB

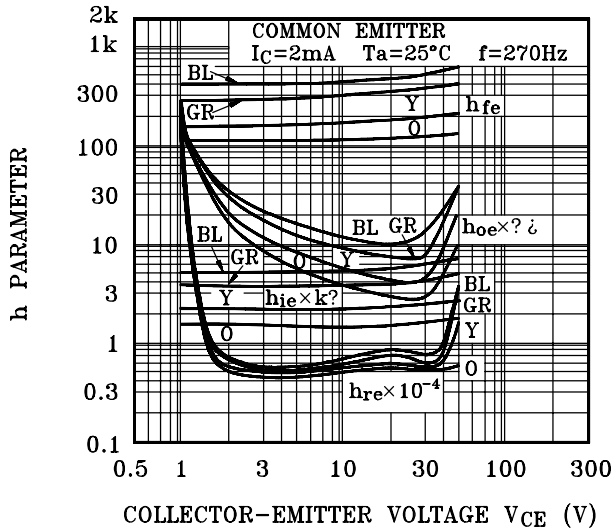
Note : h_{FE} Classification O:70~140, Y:120~240, GR:200~400, BL:300~700



h PARAMETER - I_C



h PARAMETER - V_{CE}



P_C - T_a

