

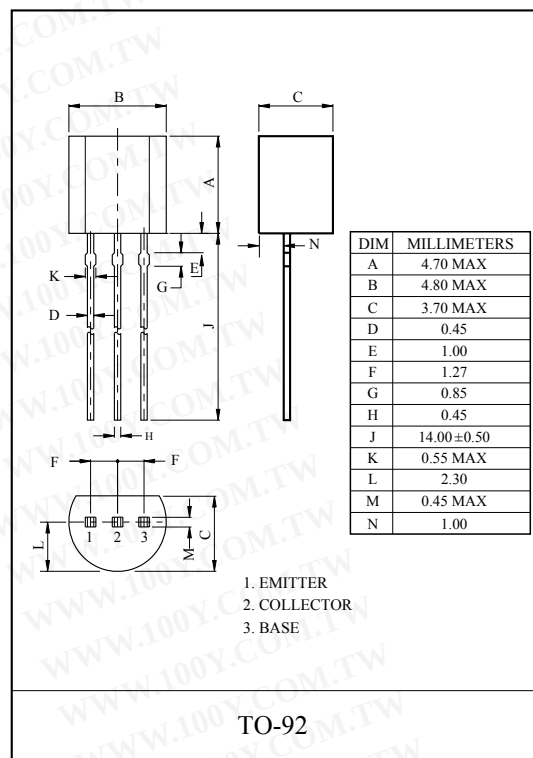
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

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

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

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 ~ 150	$^\circ\text{C}$

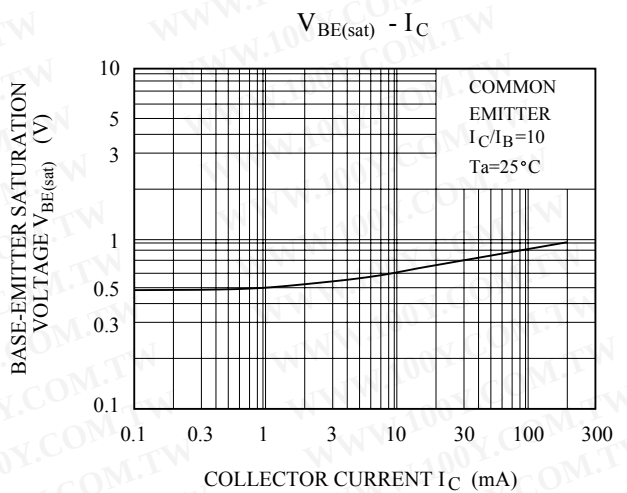
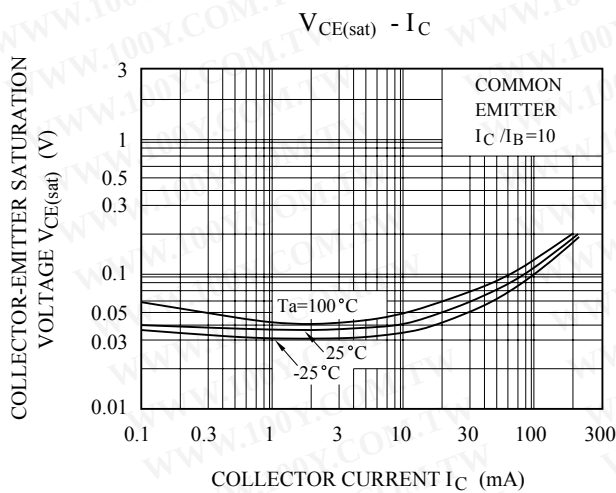
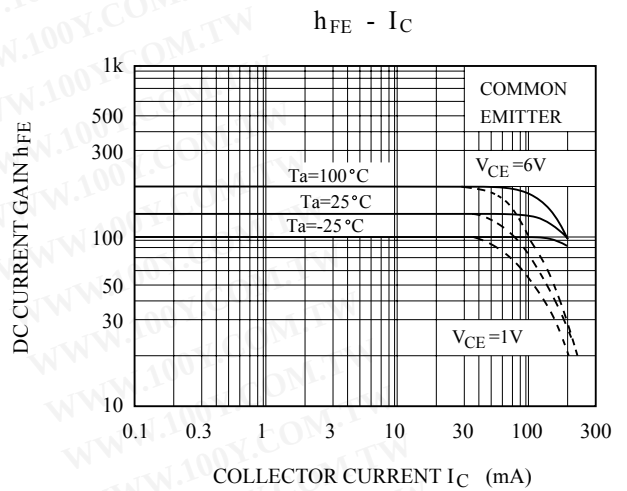
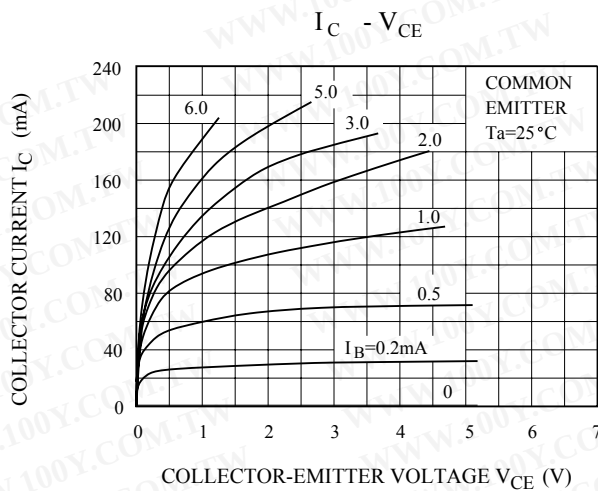
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

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

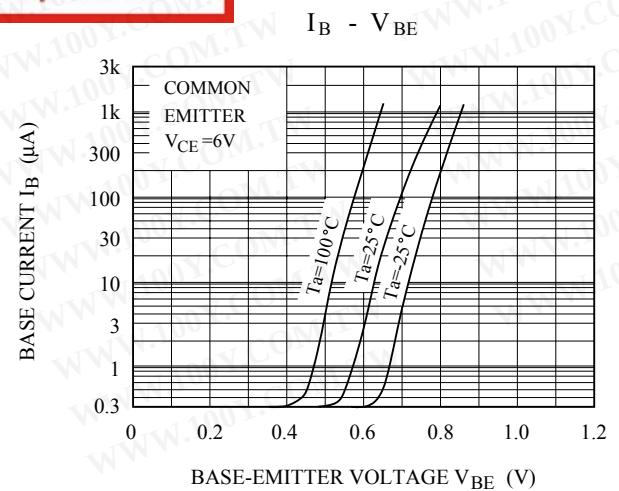
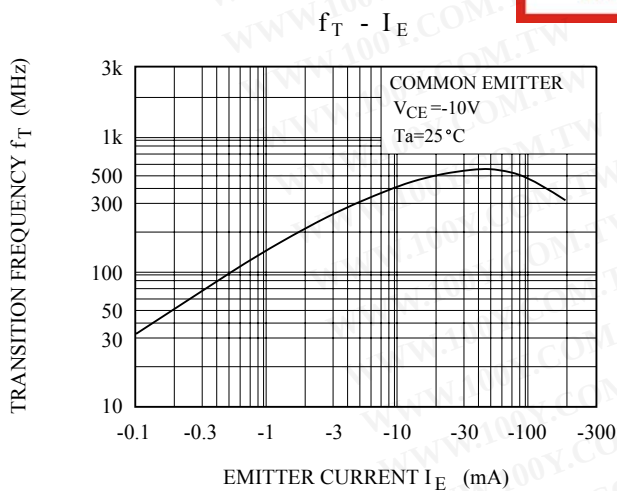
Note : $h_{FE}(1)$ Classification O:70 ~ 140, Y:120 ~ 240, GR:200 ~ 400, BL:300 ~ 700

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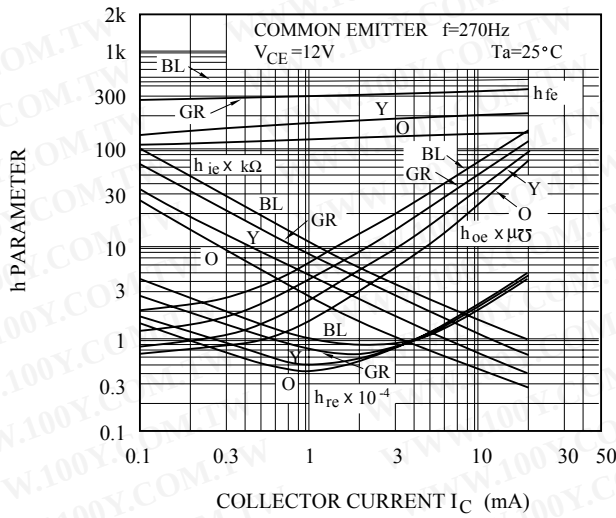


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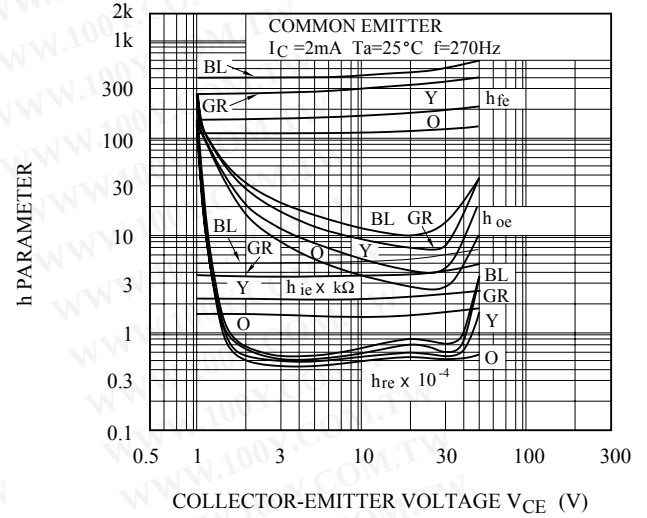


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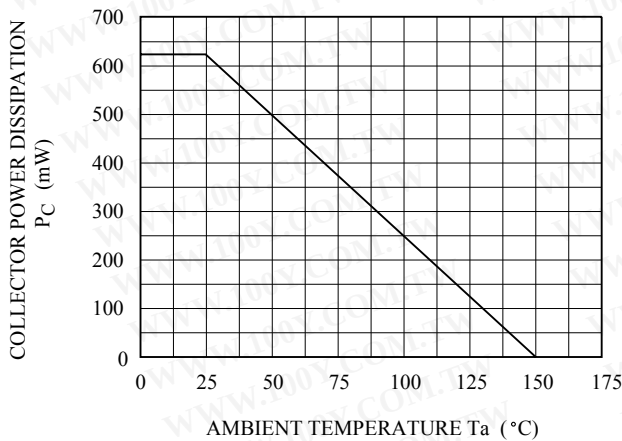
h PARAMETER - I_C



h PARAMETER - V_{CE}



P_C - T_a



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