

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

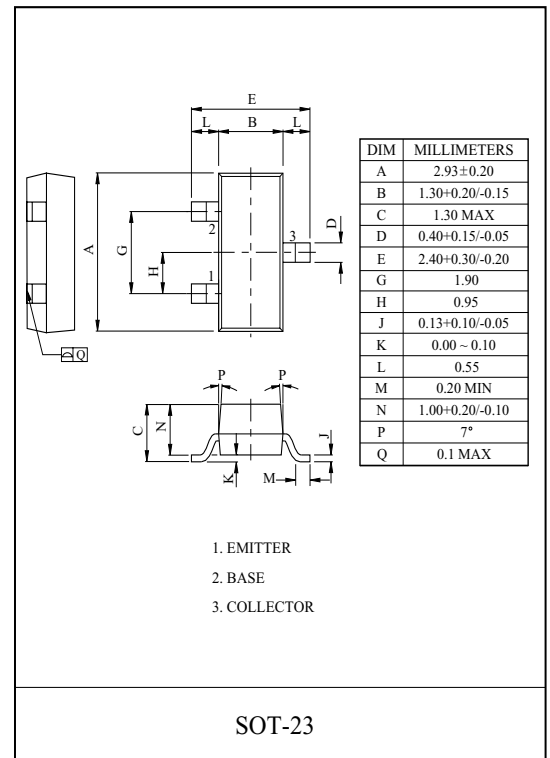
FEATURES

- Excellent h_{FE} Linearity.
- Complementary to KTC9012S.

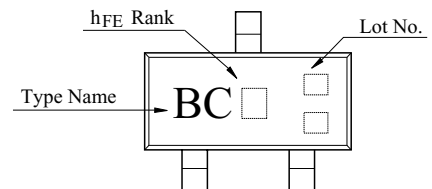
MAXIMUM RATING (Ta=25)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	500	mA
Emitter Current	I_E	-500	mA
Collector Power Dissipation	P_C *	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

* P_C : Package Mounted On 99.5% Alumina (10 × 8 × 0.6mm)



Marking



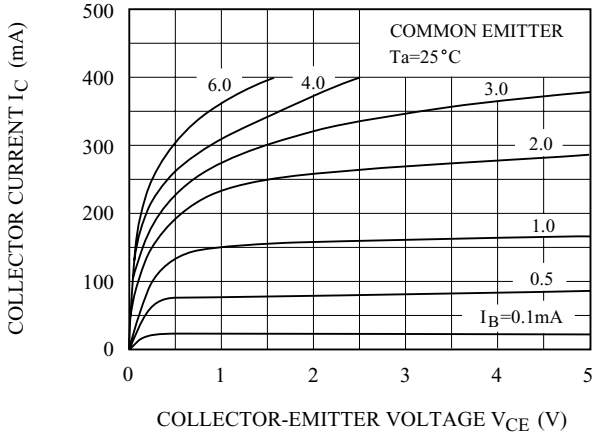
ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=35V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE}=1V, I_C=50mA$	96	-	246	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	-	0.1	0.25	V
Base-Emitter Voltage	V_{BE}	$I_C=100mA, V_{CE}=1V$		0.8	1.0	V
Transition Frequency	f_T	$V_{CE}=6V, I_C=20mA, f=100MHz$	140	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=6V, I_E=0, f=1MHz$	-	7.0	-	pF

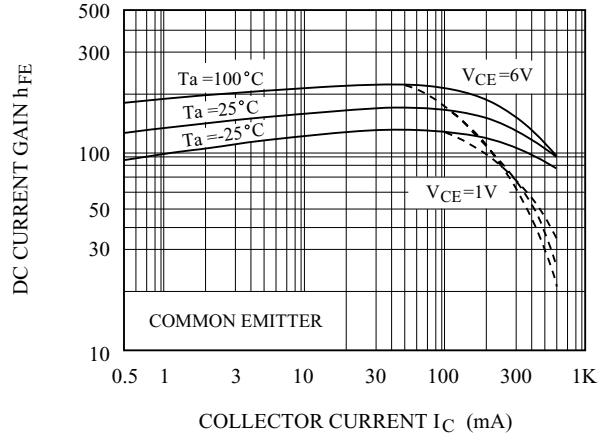
Note : h_{FE} Classification F:96 135, G:118 166, H:144 202, I:176 246

KTC9013S

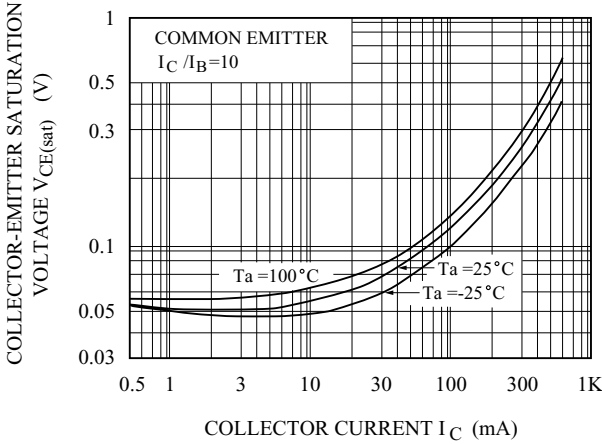
$I_C - V_{CE}$
(LOW VOLTAGE REGION)



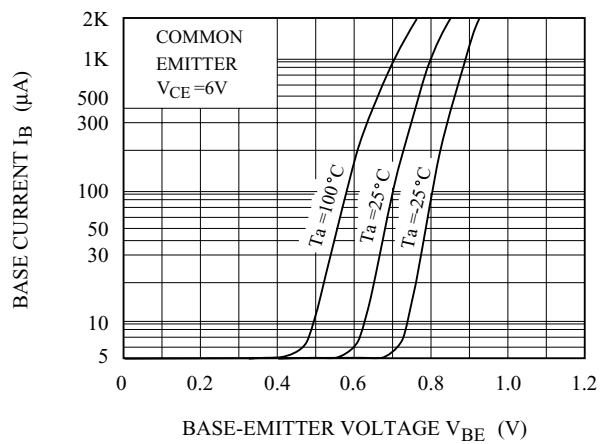
$h_{FE} - I_C$



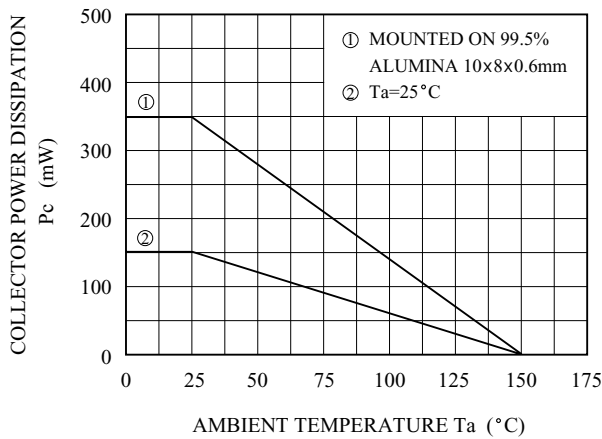
$V_{CE(sat)} - I_C$



$I_B - V_{BE}$



$P_c - T_a$



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