

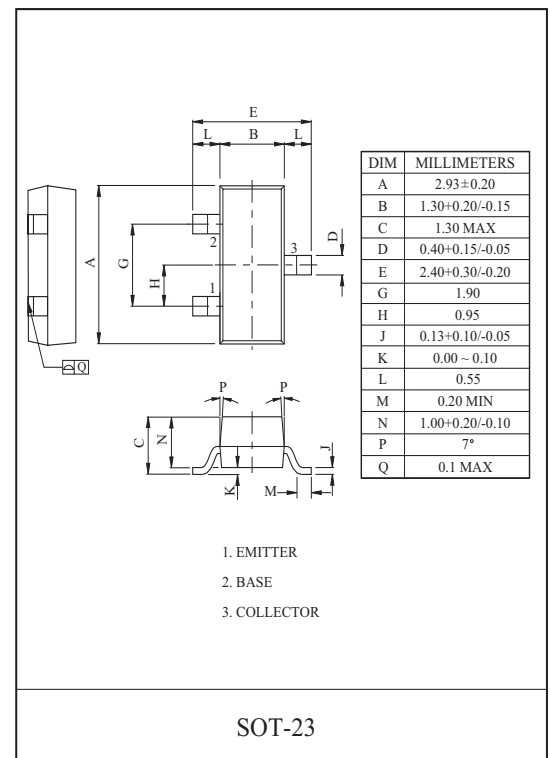
**GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.**

### FEATURES

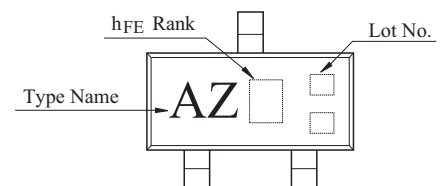
- Excellent  $h_{FE}$  Linearity  
:  $h_{FE(2)}=25(\text{Min.})$  at  $V_{CE}=-6V, I_C=-400mA$ .
- Complementary to KTC3876S.
- Suffix U : Qualified to AEC-Q101  
ex) KTA1505S-Y-RTK/PU

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-35	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-500	mA
Base Current	$I_B$	-50	mA
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	



### Marking



### ELECTRICAL CHARACTERISTICS (Ta=25 )

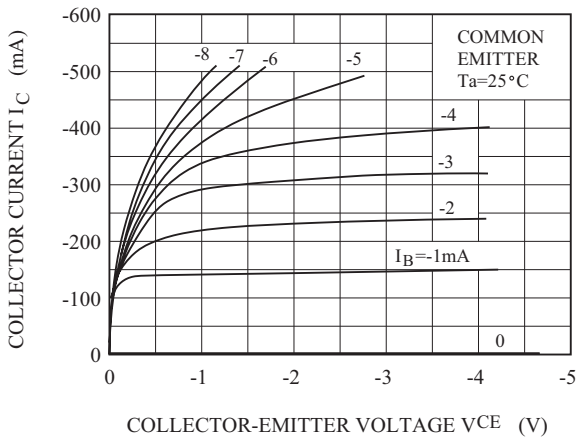
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-35V, I_E=0$	-	-	-0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$	-	-	-0.1	$\mu A$
DC Current Gain (Note)	$h_{FE(1)}$	$V_{CE}=-1V, I_C=-100mA$	70	-	400	
	$h_{FE(2)}$	$V_{CE}=-6V, I_C=-400mA$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA, I_B=-10mA$	-	-0.1	-0.25	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-1V, I_C=-100mA$	-	-0.8	-1.0	V
Transition Frequency	$f_T$	$V_{CE}=-6V, I_C=-20mA$	-	200	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-6V, I_E=0, f=1MHz$	-	13	-	pF

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

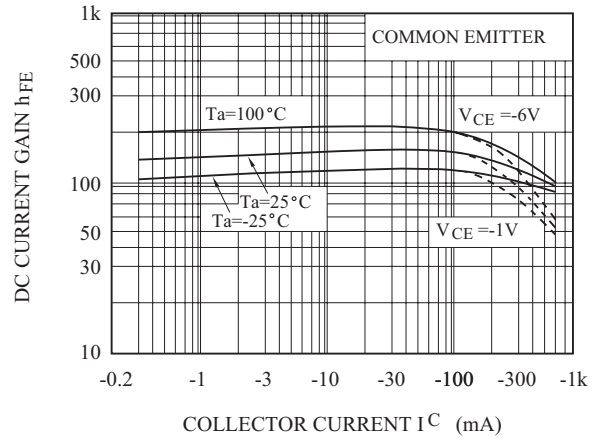
$h_{FE(2)}$  Classification O:25Min. Y:40Min.

# KTA1505S

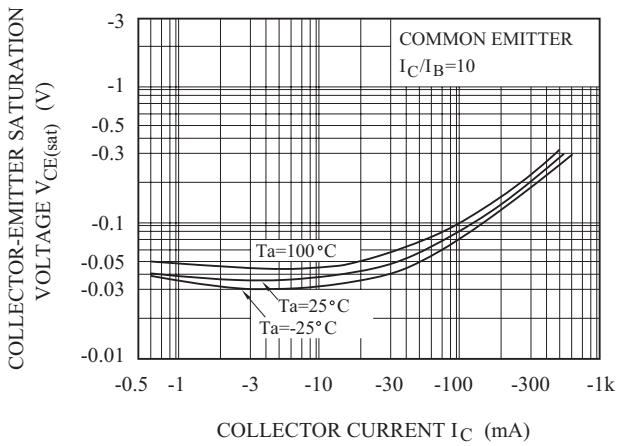
$I_C - V_{CE}$  (LOW VOLTAGE REGION)



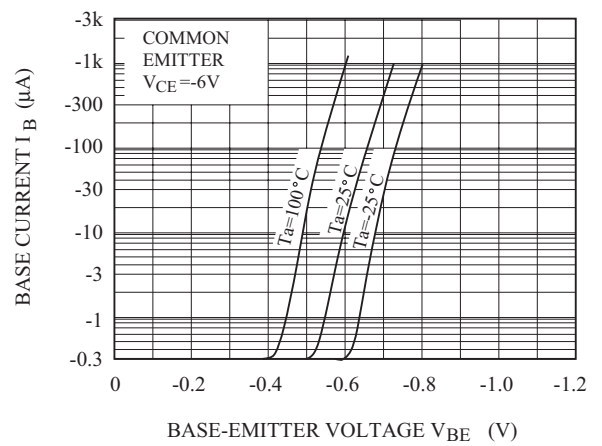
$h_{FE} - I_C$



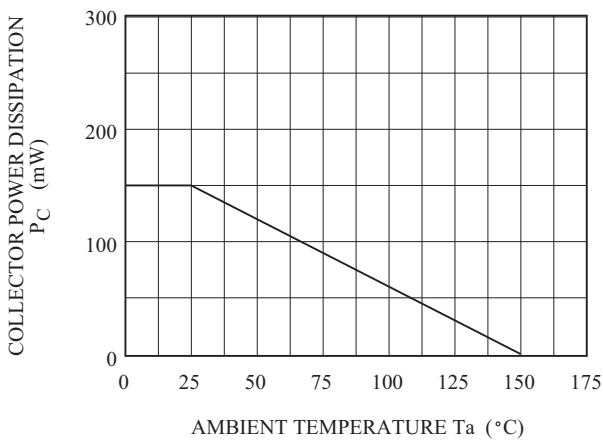
$V_{CE(sat)} - I_C$



$I_B - V_{BE}$



$P_C - T_a$



SAFE OPERATING AREA

