

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURE

- Low Noise
- Complementary to KTC3876
- Excellent h_{FE} Linearity

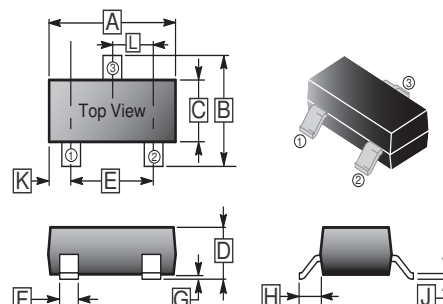
CLASSIFICATION OF $h_{FE(1)}$

Product-Rank	KTA1505-O	KTA1505-Y	KTA1505-GR
Range	70~140	120~240	200~400
Marking Code	AZO	AZY	AZG

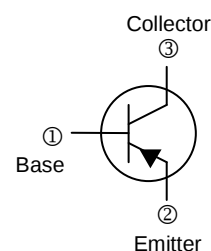
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.04	G	0.09	0.18
B	2.10	2.55	H	0.45	0.60
C	1.20	1.40	J	0.08	0.177
D	0.89	1.15	K	0.6	REF.
E	1.78	2.04	L	0.89	1.02
F	0.30	0.50			



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	150	mW
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-35	-	-	V	$I_C = -100\mu\text{A}, I_E = 0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30	-	-	V	$I_C = -1\text{mA}, I_B = 0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -100\mu\text{A}, I_C = 0$
Collector Cut-Off Current	I_{CBO}	-	-	-0.1	μA	$V_{CB} = -35\text{V}, I_E = 0$
Emitter Cut-Off Current	I_{EBO}	-	-	-0.1	μA	$V_{EB} = -5\text{V}, I_C = 0$
DC Current Gain	$h_{FE(1)}$	70	-	400	-	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$
	$h_{FE(2)}$	25	-	-	-	$V_{CE} = -6\text{V}, I_C = -400\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.25	V	$I_C = -100\text{mA}, I_B = -10\text{mA}$
Base-emitter voltage	V_{BE}	-	-	-1	V	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$
Transition Frequency	f_T	-	200	-	MHz	$V_{CE} = -6\text{V}, I_C = -20\text{mA}$
Collector Output Capacitance	C_{ob}	-	13	-	pF	$V_{CB} = -6\text{V}, I_E = 0, f = 1\text{MHz}$

CHARACTERISTIC CURVES

