Elektronische Bauelemente

KTA1023

-0.8A , -120V

PNP Plastic Encapsulated Transistor

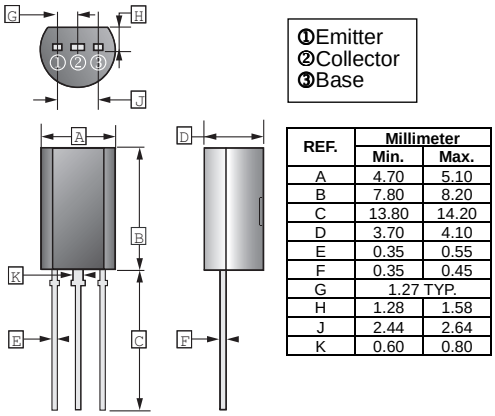
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURE

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- Audio power amplifier
- High Current

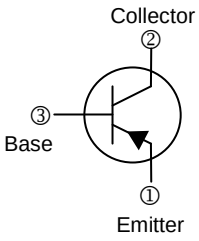
TO-92L



REF.	Millimeter	
	Min.	Max.
A	4.70	5.10
B	7.80	8.20
C	13.80	14.20
D	3.70	4.10
E	0.35	0.55
F	0.35	0.45
G	1.27 TYP.	
H	1.28	1.58
J	2.44	2.64
K	0.60	0.80

CLASSIFICATION OF h_{FE}

Product-Rank	KTA1023-O	KTA1023-Y
Range	80~160	120~240



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-120	V
Collector to Emitter Voltage	V_{CEO}	-120	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-0.8	A
Collector Power Dissipation	P_C	0.9	W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-120	-	-	V	I_C= -10μA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-120	-	-	V	I_C= -10mA, I_B=0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	I_E= -1mA, I_C=0
Collector Cut-off Current	I_{CBO}	-	-	-0.1	μA	V_{CB}= -120V, I_E=0
Emitter cut-off current	I_{EBO}	-	-	-0.1	μA	V_{EB}= -5V, I_C=0
DC Current Gain	h_{FE}	80	-	240		V_{CE}= -5V, I_C= -100mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-1	V	I_C = -0.5A, I_B = -50mA
Base-Emitter Voltage	V_{BE}	-	-	-1	V	I_C = -500mA, V_{CE}= -5V
Transition Frequency	f_T	-	120	-	MHz	V_{CE}= -5V, I_C= -100mA
Collector Output Capacitance	C_{Ob}	-	-	40	pF	V_{CE}= -10V, I_E=0, f=1MHz