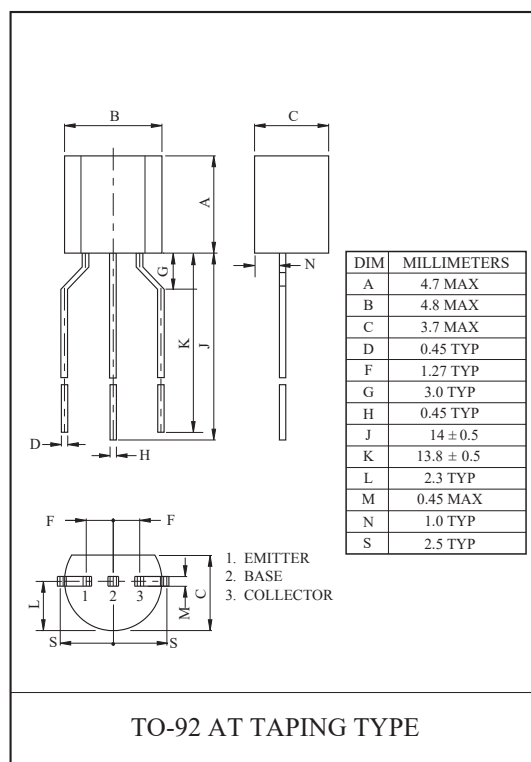
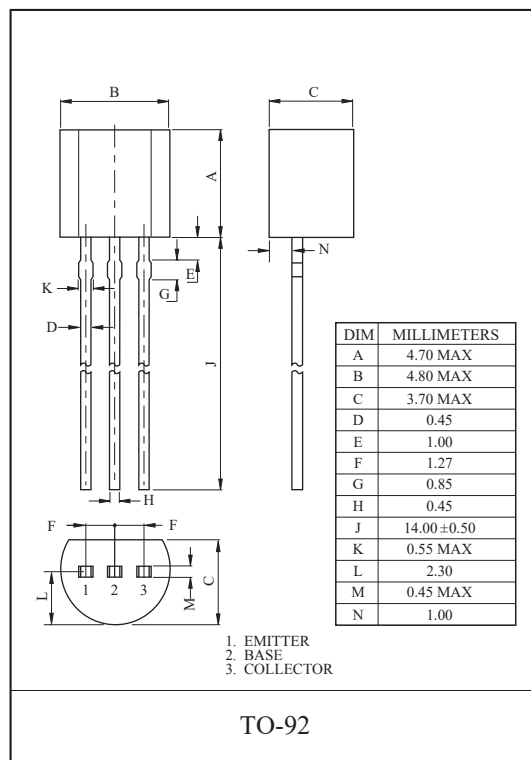


GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

· Complementary to KN4400/4401.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-600	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~ 150	°C



KN4402/4403

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I _{CEX}	V _{CE} =-35V, V _{EB} =-0.4V	-	-	-100	nA
Collector Cut-off Current		I _{CBO}	V _{CB} =-40V, I _E =0	-	-	-100	nA
Collector-Base Breakdown Voltage		V _{(BR)CBO}	I _C =-100μA, I _E =0	-40	-	-	V
Collector-Emitter Breakdown Voltage *		V _{(BR)CEO}	I _C =-1mA, I _B =0	-40	-	-	V
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	I _E =-100μA, I _C =0	-5	-	-	V
DC Current * Gain	KN4403	h _{FE} (1)	V _{CE} =-1V, I _C =-0.1mA	30	-	-	
	KN4402	h _{FE} (1)	V _{CE} =-1V, I _C =-1mA	30	-	-	
	KN4403	h _{FE} (2)		60	-	-	
	KN4402	h _{FE} (2)	V _{CE} =-1V, I _C =-10mA	50	-	-	
	KN4403	h _{FE} (3)		100	-	-	
	KN4402	h _{FE} (3)	V _{CE} =-2V, I _C =-150mA	50	-	150	
	KN4403	h _{FE} (4)		100	-	300	
	KN4402	h _{FE} (4)	V _{CE} =-2V, I _C =-500mA	20	-	-	
KN4403	h _{FE} (5)	20		-	-		
Collector-Emitter Saturation Voltage *		V _{CE(sat)1}	I _C =-150mA, I _B =-15mA	-	-	-0.4	V
		V _{CE(sat)2}	I _C =-500mA, I _B =-50mA	-	-	-0.75	
Base-Emitter Saturation Voltage *		V _{BE(sat)1}	I _C =-150mA, I _B =-15mA	-0.75	-	-0.95	V
		V _{BE(sat)2}	I _C =-500mA, I _B =-50mA	-	-	-1.3	
Transition Frequency		f _T	V _{CE} =-10V, I _C =-20mA f=100MHz	200	-	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	-	8.5	pF

* Pulse Test : Pulse Width $\leq 300\mu S$, Duty Cycle $\leq 2\%$.

