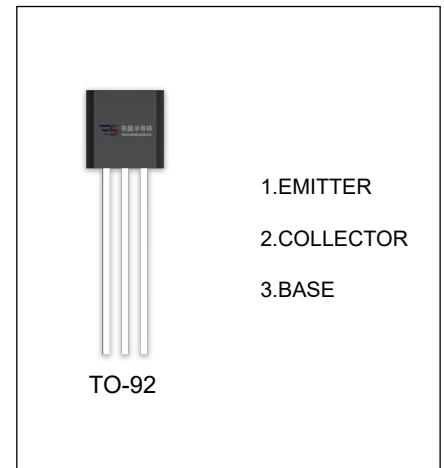


KTC3202 TRANSISTOR (NPN)

FEATURES

- General Purpose Application Switching Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTC3202	TO-92	Bulk	1000pcs/Bag
KTC3202-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	0.5	A
P _D	Collector Power Dissipation	625	mW
R _{θ JA}	Thermal Resistance from Junction to Ambient	200	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-BASE breakdown voltage	$V_{(BR)CBO}$	$I_C = 0.1\text{mA}, I_B=0$	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 0.1\text{mA}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}= 35\text{V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}= 5\text{V}, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}= 1\text{V}, I_C= 100\text{mA}$	70		400	
	$h_{FE(2)}$	$V_{CE}= 6\text{V}, I_C= 400\text{mA}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100\text{mA}, I_B= 10\text{mA}$			0.25	V
Base-Emitter Saturation Voltage	V_{BE}	$V_{CE}=1\text{V}, I_C= 100\text{mA}$			1.0	V
Transition frequency	f_T	$V_{CE}= 6\text{V}, I_C= 20\text{mA}$		300		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}= 6\text{V}, I_E= 0, f=1\text{ MHz}$		7.0		pF

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range $h_{FE(1)}$	70-140	120-240	
Range $h_{FE(2)}$	25	40	