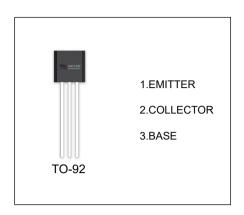


KTC3194 TRANSISTOR (NPN)

FEATURES

General Purpose Switching Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTC3194	TO-92	Bulk	1000pcs/Bag
KTC3194-TA	TO-92	Tape	2000pcs/Box

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

Symbo	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
Ic	Collector Current	0.02	Α
Pc	Collector Power Dissipation	0.625	W
R _{θJA}	Thermal Resistance From Junction To Ambient	200	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



$T_a \text{=} 25\,^\circ\!\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C = 0.1mA ,I _E =0	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I _C =1mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =40V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =6V, I _C =1mA	40		200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =15mA,I _B =1.5mA			0.2	V
Transition frequency	f _T	V _{CE} =6V,I _C =1mA		550		MHz

CLASSIFICATION OF h_{FE}

RANK	R	0	Y
RANGE	40-80	70-140	100-200