

FEATURES

- High emitter-base voltage
- low on resistance

Marking: MAX

Maximum Ratings (Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	25	V
Collector-Emitter Voltage	V _{CEO}	20	V
Emitter-Base Voltage	V _{EBO}	12	V
Collector Current -Continuous	I _C	300	mA
Collector Power dissipation	P _C	0.2	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

KTD1304 (NPN)



ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _C =100μA, I _E =0	25			V
Collector-emitter breakdown voltage	V _{CEO}	I _C =1mA, I _B =0	20			V
Emitter-base breakdown voltage	V _{EBO}	I _E =100μA, I _C =0	12			V
Collector cut-off current	I _{CBO}	V _{CB} =25 V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =12V, I _C =0			0.1	μA
DC current gain	h _{FE} (FOR)	V _{CE} =2V, I _C =4 mA	200		1000	
	h _{FE} (REV)	V _{CE} = 2V, I _C = 4mA	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 100mA, I _B =10 mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 100mA, I _B =10mA			1	V
Transition frequency	f _T	V _{CE} =10V, I _C = 1mA f=100MHz		60		MHz
output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz		10		pF
On resistance	R _(on)	V _{in} =0.3V,I _B =1mA,f=1KHz		0.6		

KTD1304 Typical Characteristics
