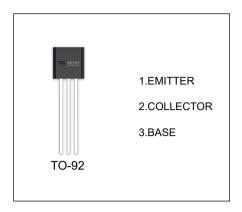


KTD1146 TRANSISTOR (NPN)

FEATURES

- Low V_{CE(sat)}.
- High Performance at Low Supply Voltage.



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTD1146	TO-92	Bulk	1000pcs/Bag
KTD1146-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	5	Α
Pc	Collector Power Dissipation	0.625	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



T_a =25 $^{\circ}$ C 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	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.01mA,I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =7V,I _C =0			0.1	μA
DC current gain	h _{FE} *	V _{CE} =2V, I _C =500mA	120		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =3A,I _B =60mA			0.4	V
Transition Frequency	f _T	V _{CE} =6V,I _C =50mA	20			MHz

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

CLASSIFICATION OF h_{FE}

RANK	Q	Υ	GR
RANGE	120-240	200-400	350-700