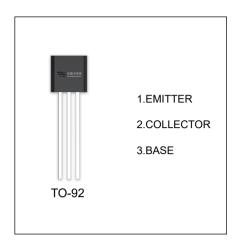


KTC3192 TRANSISTOR(NPN)

FEATURE

• High Power Gain: Gpe=29dB(Typ)(f=10.7MH_Z)



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTC3192	TO-92	Bulk	1000pcs/Bag
KTC3192-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
Ic	Collector Current -Continuous	50	mA
Pc	Collector Power Dissipation	625	mW
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C



Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	CEO I _C = 1mA , I _B =0				V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} = 35V , I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 4V , I _C =0			1.0	μA
DC current gain	h _{FE}	V _{CE} =12 V, I _C = 2mA	40		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 10mA, I _B = 1mA			0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 10mA, I _B = 1mA			1.0	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 1mA	100		400	MHz
Collector output capacitance	C _{ob}	V _{CB} =10 V,I _E =0,f=1MH _Z	1.4		3.2	pF
Collector-base time constant	C _{c.rbb} ,	V _{CE} =10V,I _C =1mA, f=30MH _Z	10		50	pS
Power gain	Gpe	V_{CC} =6 V , I_{C} =1 m A, f=10.7 M H $_{Z}$	27		33	dB

CLASSIFICATION OF h_{FE}

Rank	R	0	Υ
Range	40-80	70-140	120-240