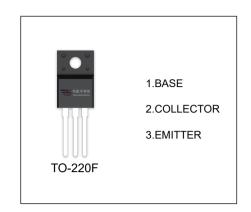


KTC4369 TRANSISTOR (NPN)

FEATURES

- High Transition Frequency
- Good Linearity of h_{FE}
- General Purpose Application



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	3	Α
Pc	Collector Power Dissipation	2	W
R _{0JA}	Thermal Resistance From Junction To Ambient 62.5		°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			1	μA
DC current gain	h _{FE(1)}	V _{CE} =2V, I _C =500mA	70		240	
De current gant	h _{FE(2)}	V _{CE} =2V, I _C =2.5A	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A,I _B =0.2A			0.8	V
Base-emitter voltage	V _{BE}	V _{CE} =2V, I _C =500mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		35		pF
Transition frequency	f _T	Vce=2V,Ic=500mA		100		MHz

CLASSIFICATION OF h_{FE (1)}

RANK	0	Y
RANGE	70-140	120-240