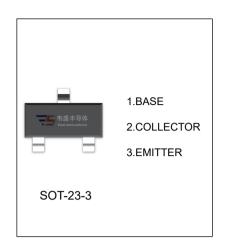


KTC4075 TRANSISTOR (NPN)

FEATURES

- Excellent h_{FE} linearity
- High h_{FE}
- Low Noise
- Complementary to KTA2014



MAXIMUM RATINGS(Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	150	mA	
Pc	Collector Power Dissipation	100	mW	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	℃	

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	60		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	50		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0		0.1	μA
Emitter cut-off current	I _{EBO}	V_{EB} =5 V , I_{C} =0		0.1	μA
DC current gain	h _{FE}	V _{CE} = 6V, I _C =2mA	70	700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B = 10mA		0.25	V
Transition frequency	f _T	V _{CE} =10V, I _C = 1mA 8			MHz
Collector output capacitance	Cob	V _{CE} =10V, I _E =0, f=1MHz		3.5	pF
Noise figure	NF	V_{CE} =6 V , I_{E} =0.1 m A, f=1 K Hz, R_{G} =10 K Ω		10	dB

CLASSIFICATION OF h_{FE}

Rank	0	Υ	GR	BL
Range	70~140	120~240	200~400	350~700
Marking	LO	LY	LGR	LBL