



SOT-323 Plastic-Encapsulate Transistors

KTC4075 TRANSISTOR (NPN)

FEATURES

- Excellent hFE linearity
- High hFE
- Low Noise
- Complementary to KTA2014



MAXIMUM RATINGS* T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	150	mA
P _D	Total Device Dissipation	100	mW
T _J , T _{stg}	Junction and Storage Temperature	-55-125	°C

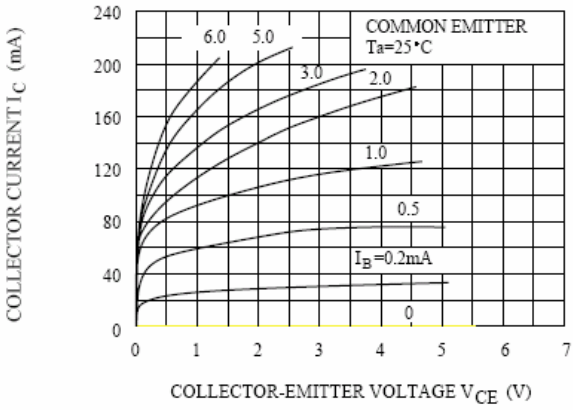
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

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} =5V, I _C =0		0.1	µA
DC current gain	h _{FE}	V _{CE} = 6V, I _C =2mA	70	700	
Collector-emitter saturation voltage	V _{CEsat}	I _C =100mA, I _B = 10mA		0.25	V
Transition frequency	f _T	V _{CE} =10V, I _C = 1mA	80		MHz
Collector output capacitance	C _{ob}	V _{CE} =10V, I _E =0, f=1MHz		3.5	dB
Noise figure	NF	V _{CE} =6V, I _E =0.1mA, f=1KHz, R _G =10KΩ		10	dB

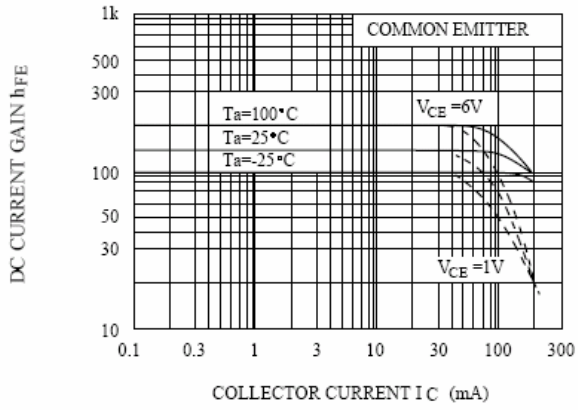
CLASSIFICATION OF h_{FE}

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

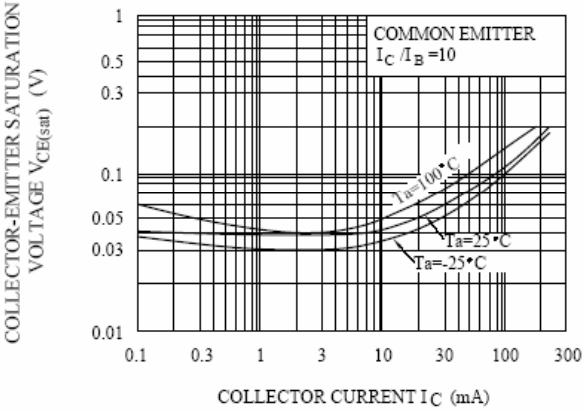
$I_C - V_{CE}$



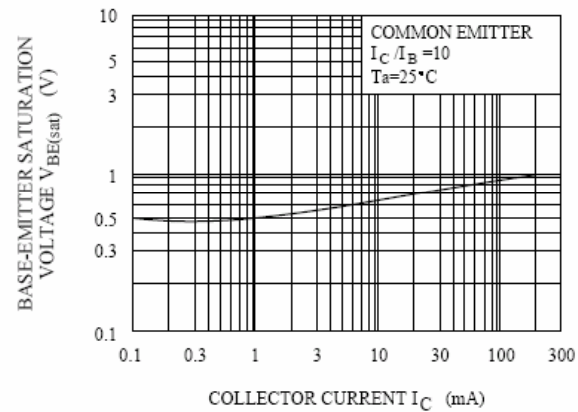
$h_{FE} - I_C$



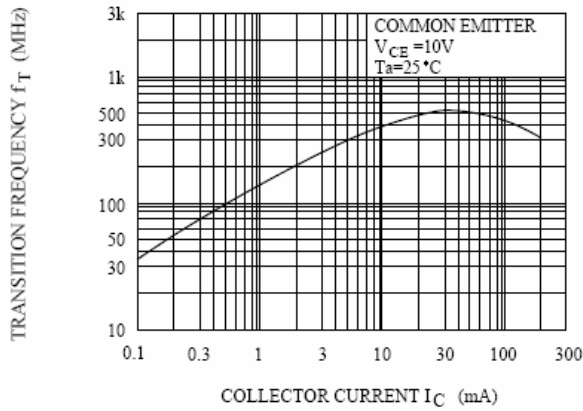
$V_{CE(sat)} - I_C$



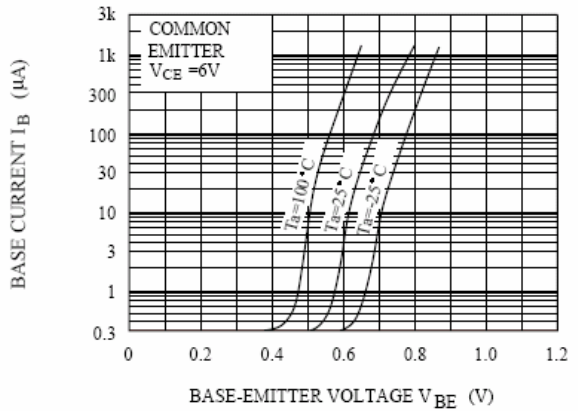
$V_{BE(sat)} - I_C$



$f_T - I_C$



$I_B - V_{BE}$



查询"KTC4075-30T-323"供应商

