Micro Commercial Components
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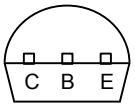
KTA1267

PNP General Purpose Application

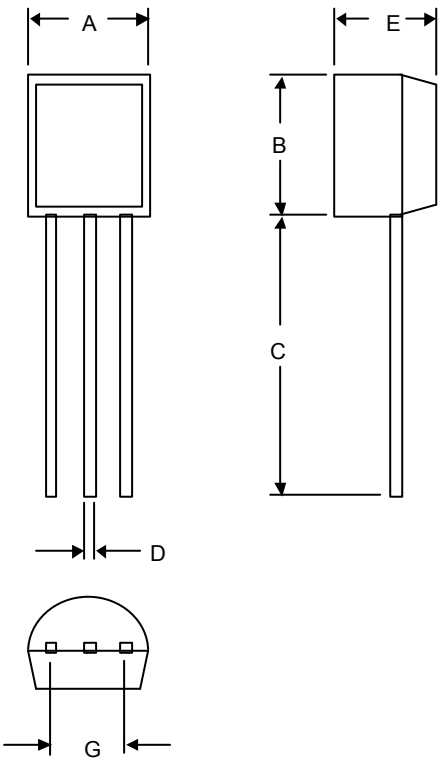
Features

- Excellent h_{FE} Linearity: h_{FE}(0.1mA)/h_{FE}(2.0mA)=0.95(Typ)
- Low Noise: NF=1.0dB(Typ.), 10dB(Max.)
- Complementary to KTC3199

Pin Configuration
Bottom View



TO-92S



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.16		4.00		
B	.12		3.00		
C	.59	---	15.00	---	
D	.02		0.45		
E	.08		2.00		
G	.20		5.00		

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	150	mA
I_E	Emitter Current	150	A
P_C	Collector power dissipation	400	mW
T_J	Junction Temperature	-55 to +150	^{O}C
T_{STG}	Storage Temperature	-55 to +150	^{O}C

Electrical Characteristics @ 25^{0}C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
I_{CBO}	Collector-Base Cutoff Current (V_{CB}=50Vdc,I_E=0)	---	---	0.1	uAdc
I_{EBO}	Emitter-Base Cutoff Current (V_{EB}=5.0Vdc, I_C=0)	---	---	0.1	uAdc
ON CHARACTERISTICS					
h_{FE}	DC Current gain(1) (I_C=2.0mAdc, V_{CE}=6.0Vdc)	70	---	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=100mAdc, I_B=10mAdc)	---	0.1	0.3	Vdc
f_T	Transistor Frequency (V_{CE}=10Vdc, I_C=1.0mAdc)	80	---	---	MHz
C_{ob}	Collector Output Capacitance (V_{CB}=10Vdc, I_E=0, f=1.0MHz)	---	4.0	7.0	pF
NF	Noise Figure (V_{CE}=6.0Vdc, I_C=0.1mAdc, f=1.0kHz, Rg=10KOHM)	---	1.0	10	dB

(1) h_{FE} Classification O: 70~140, Y: 120~240, GR: 200~400

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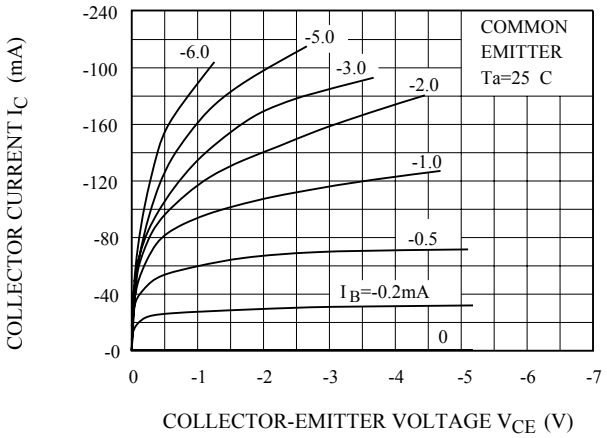
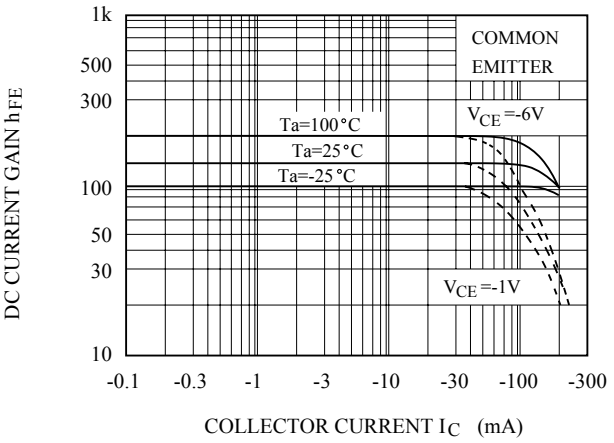
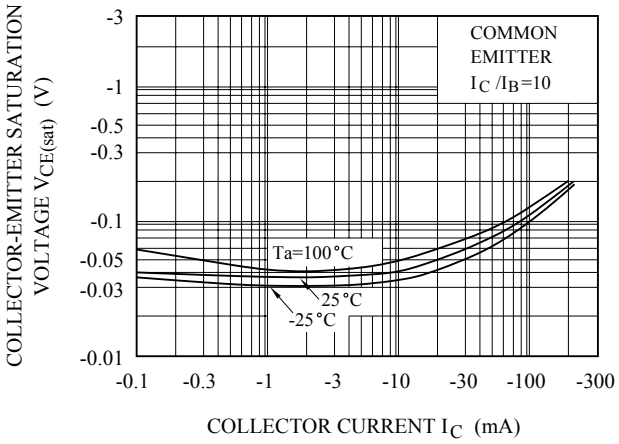
I_C - V_{CE}



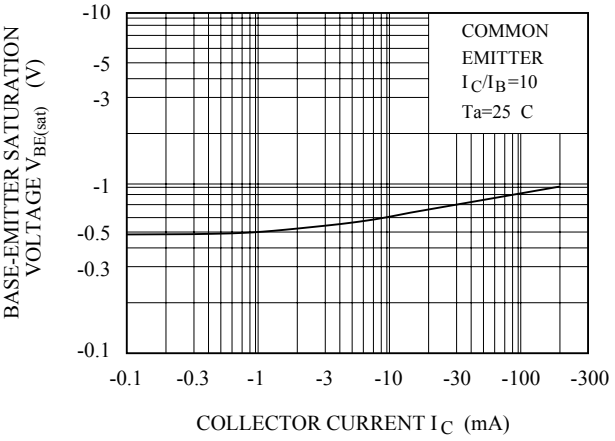
h_{FE} - I_C



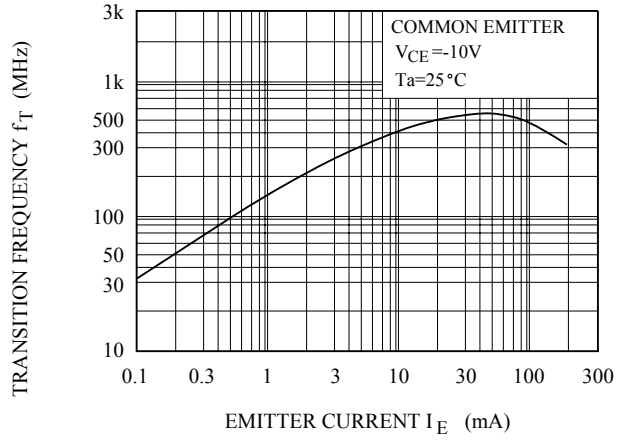
$V_{CE(sat)}$ - I_C



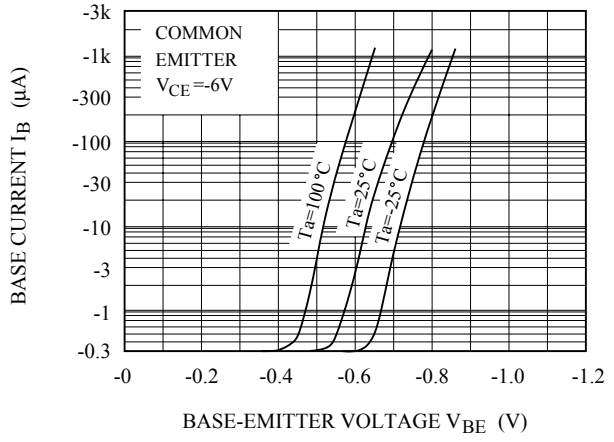
$V_{BE(sat)}$ - I_C



f_T - I_E



I_B - V_{BE}



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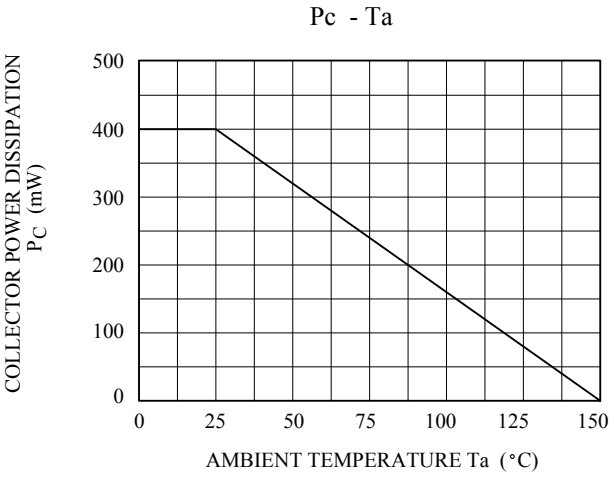
Pc - Ta
COLLECTOR POWER DISSIPATION
P_C (mW)
500
400
300
200
100
0
0
25
50
75
100
125
150
AMBIENT TEMPERATURE Ta (°C)