



Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low frequency power amplifier application
- Power switching application
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 250C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{CBO}	Collector-Base Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	150	mA
P_C	Collector Dissipation	100	mW
T_J	Operating Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1mA$, $I_B=0$)	-50	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-0.1mA$, $I_E=0$)	-50	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=-0.1mA$, $I_C=0$)	-5	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-50Vdc$, $I_E=0$)	---	---	-0.1	uA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-5Vdc$, $I_C=0$)	---	---	-0.1	uA
h_{FE}	DC Current Gain ($V_{CE}=-6Vdc$, $I_C=-2mA$)	70	---	400	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-100mA$, $I_B=-10mA$)	---	---	-0.3	Vdc
C_{ob}	Output Capacitance ($V_{CB}=-10.0Vdc$, $I_E=0$, $f=1.0MHz$)	---	---	7	pF
f_T	Transition frequency ($V_{CE}=-10Vdc$, $I_C=-1mA$)	80	---	---	MHz

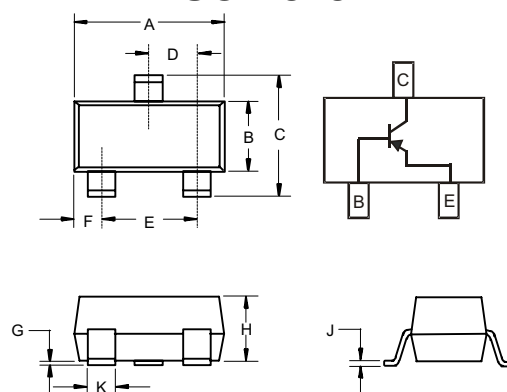
h_{FE} CLASSIFICATION

Rank	O	Y	GR
Marking	SO	SY	SG
h_{FE}	70~120	120~240	200~400

KTA2014-O
KTA2014-Y
KTA2014-GR

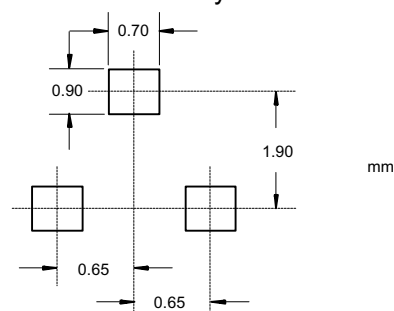
PNP
Plastic-Encapsulate
Transistors

SOT-323



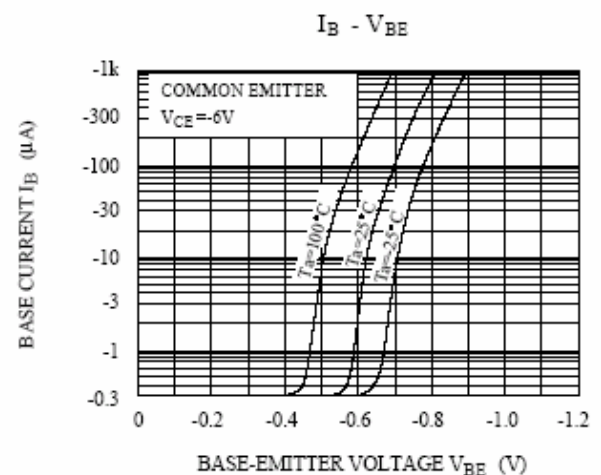
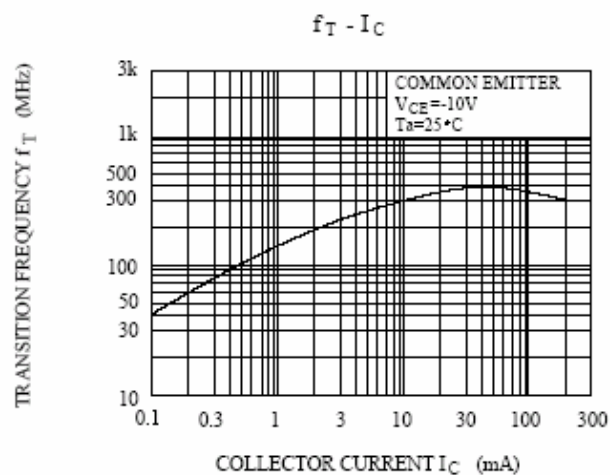
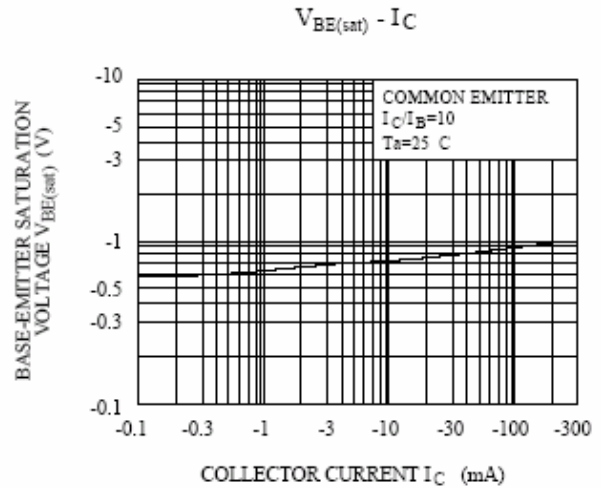
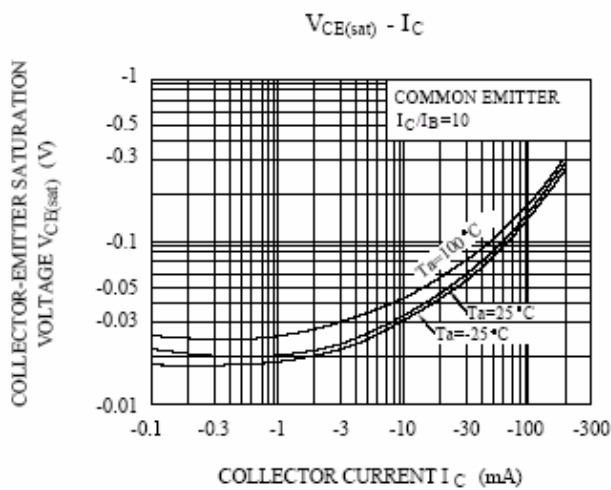
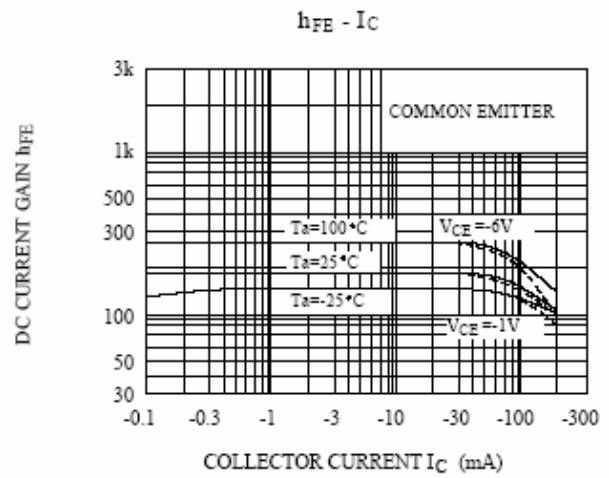
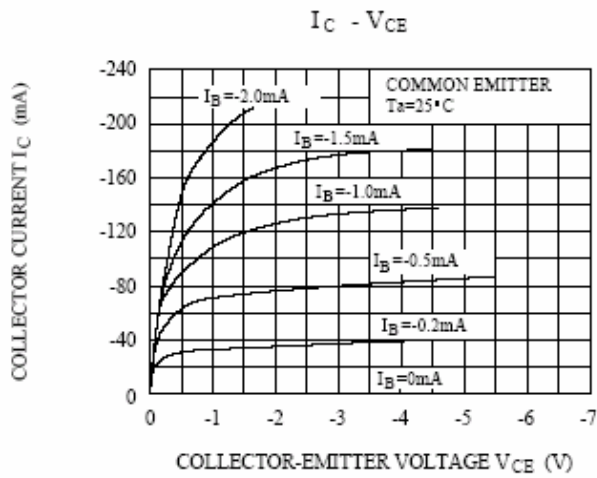
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65 Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

Suggested Solder
Pad Layout



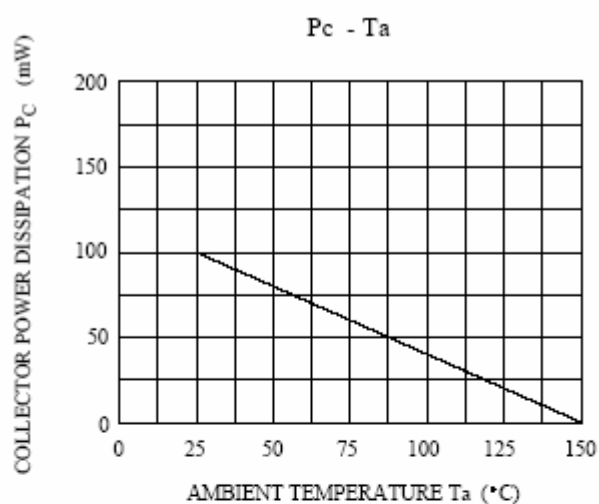
KTA2014

Typical Characteristics



KTA2014

Typical Characteristics



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

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