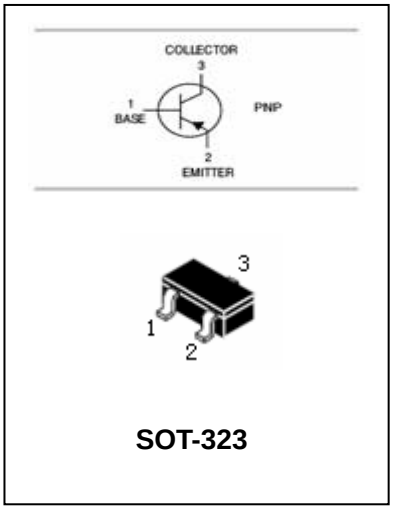
PNP Silicon Epitaxial Planar Transistor **KTA2014**

FEATURES

- Power dissipation.(P_C=200mW)
- Excellent h_{FE} Linearity.
- Complementary to KTC4075.
- Small package.

Lead-free



SOT-323

APPLICATIONS

- General purpose application and switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
KTA2014	SO▪/SY▪/SG▪	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Parameter**	**Value**	**Units**
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter 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,T_{stg}	Junction and Storage Temperature	-55~150	℃

PNP Silicon Epitaxial Planar Transistor **KTA2014**

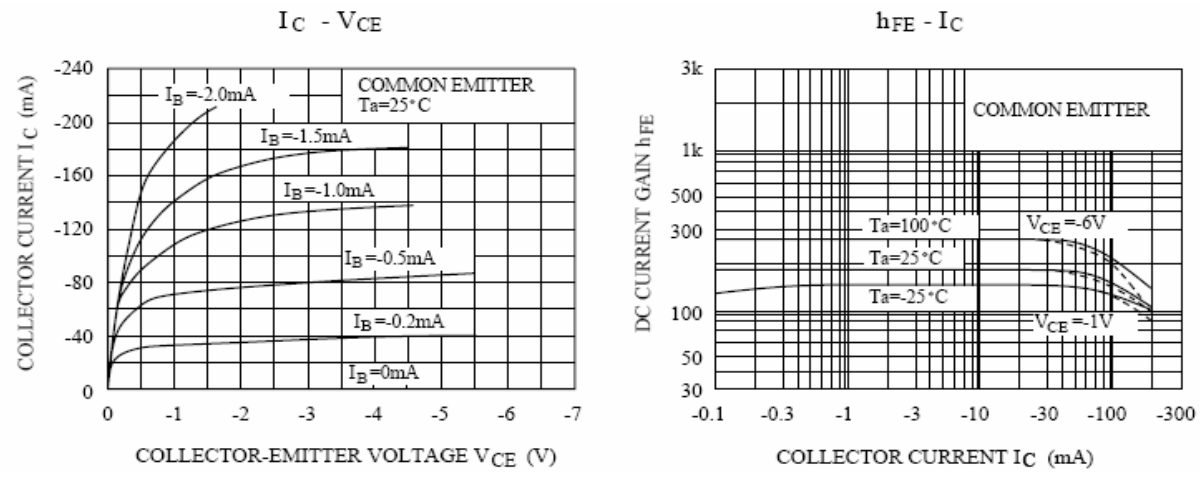
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-0.1mA,I_E=0	-50			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=-0.1mA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-50V,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		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-100mA, I_B=-10mA		-0.1	-0.3	V
Transition frequency	f_T	V_{CE}=-10V, I_C= -1mA	80			MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz		4	7	pF
Noise figure	NF	V_{CE}=6V,I_C=0.1mA,f=1KHz,R_g=10KΩ		1.0	10	dB

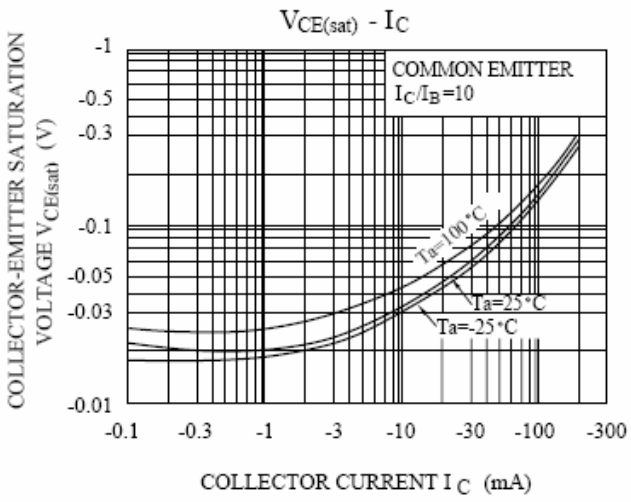
CLASSIFICANTION OF h_{FE}

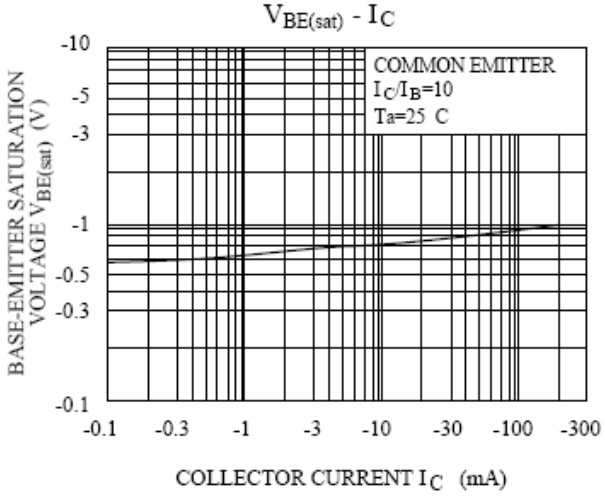
Rank	O	Y	G
Range	70-140	120-240	200-240
marking	SO	SY	SG

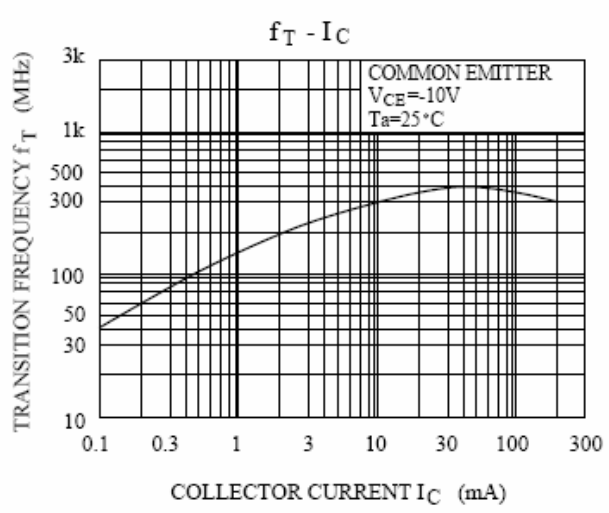
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

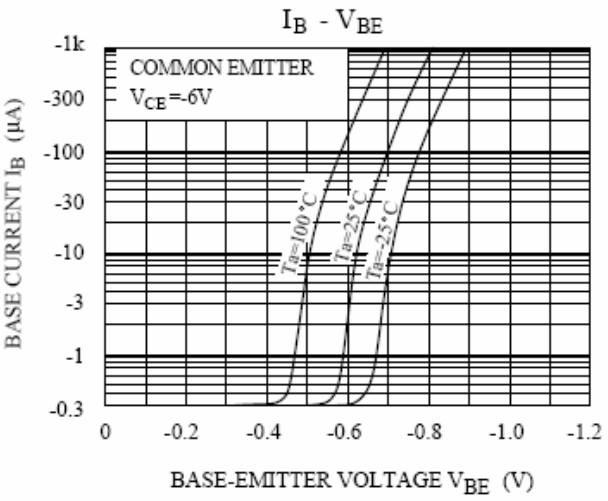


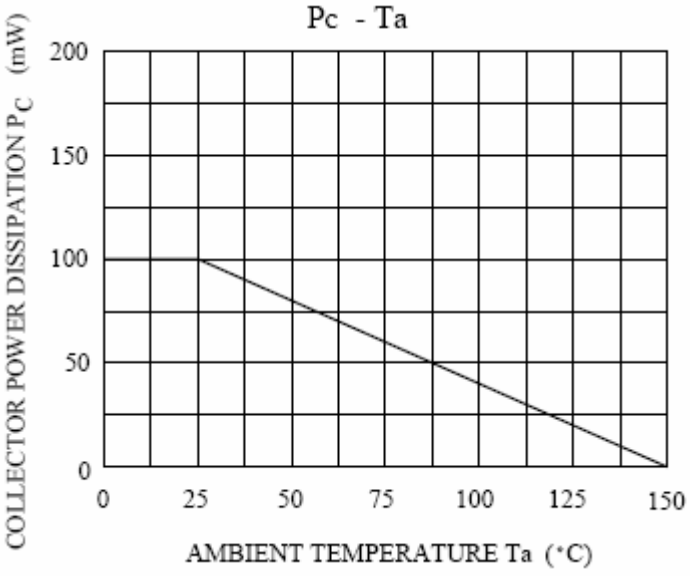
PNP Silicon Epitaxial Planar Transistor **KTA2014**







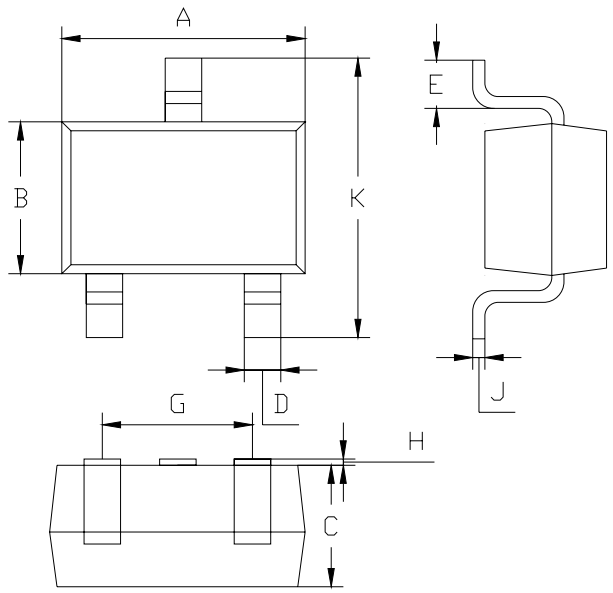




PNP Silicon Epitaxial Planar Transistor **KTA2014**

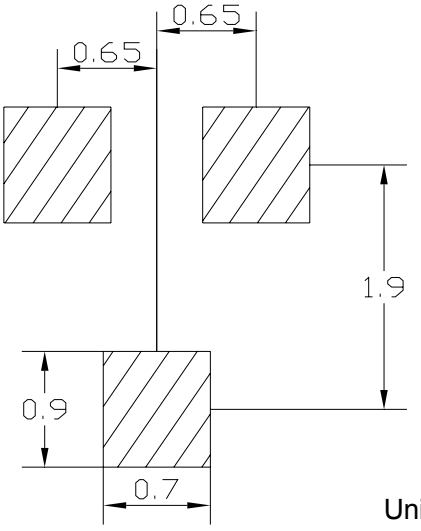
PACKAGE OUTLINE

Plastic surface mounted package SOT-323



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0Typical	
D	0.15	0.35
E	0.25	0.40
G	1.2	1.4
H	0.02	0.1
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
KTA2014	SOT-323	3000/Tape&Reel