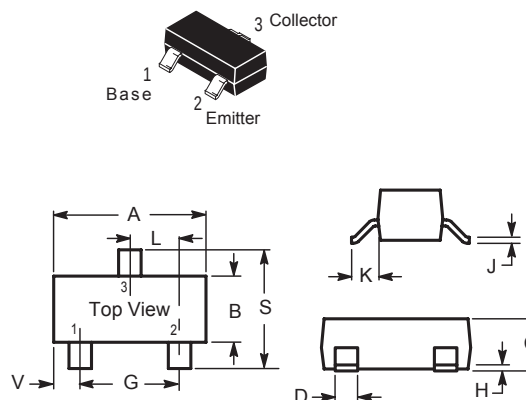


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

DESCRIPTION

The 2SC1623K is designed for use in driver stage of AF amplifier and general purpose application.

PACKAGE DIMENSIONS



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

ABSOLUTE MAXIMUM RATINGS at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA
Total Power Dissipation	P_c	200	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	°C

CHARACTERISTICS at Ta = 25°C

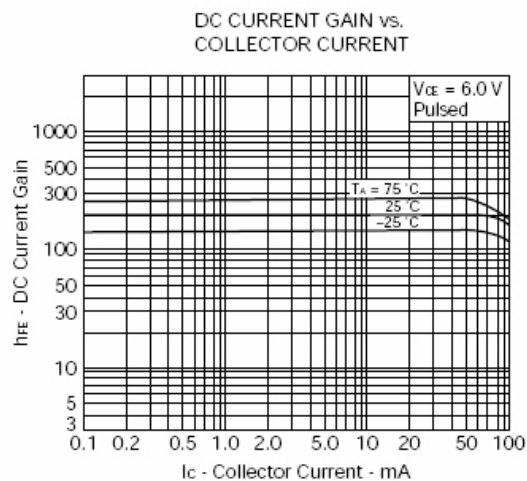
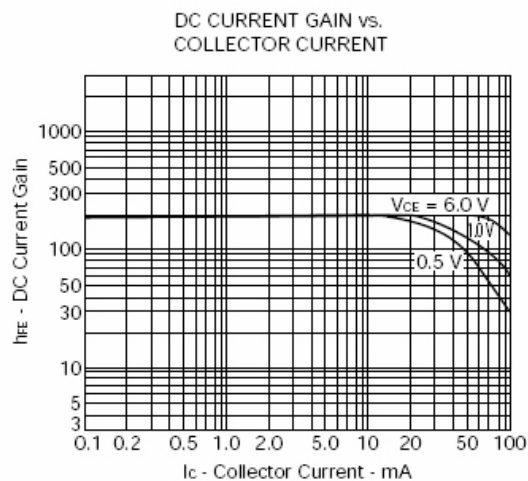
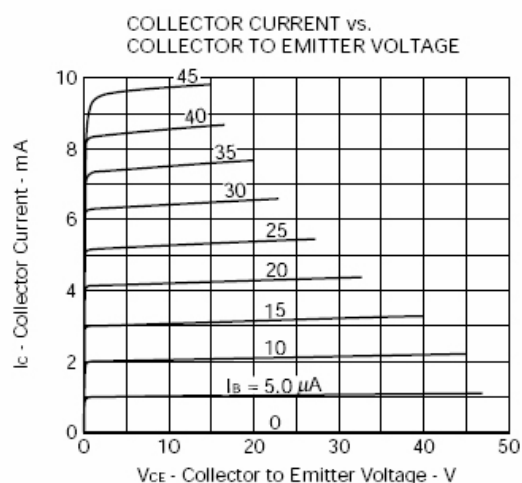
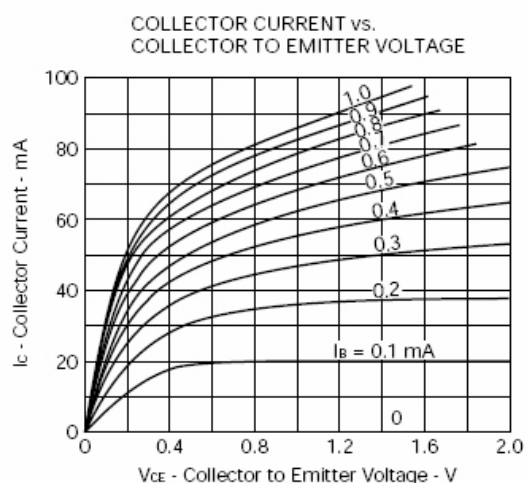
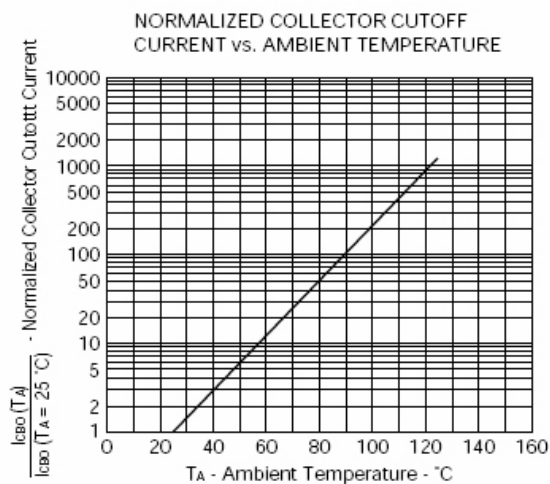
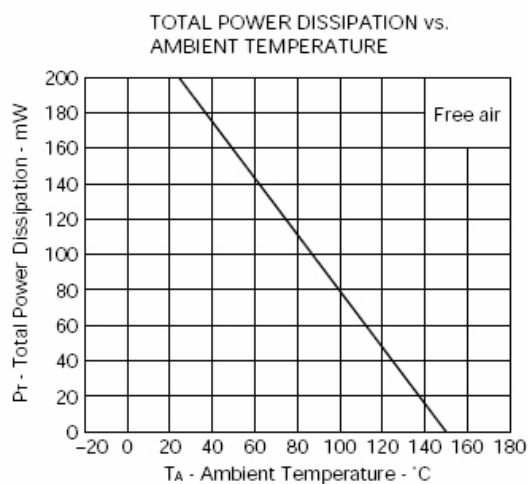
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVC_{BO}	60	-	-	V	$I_C=100\mu A$
BV_{CEO}	50	-	-	V	$I_C=1mA$
BVE_{BO}	5	-	-	V	$I_E=100\mu A$
IC_{BO}	-	-	100	nA	$V_{CB}=60V$
IE_{BO}	-	-	100	nA	$V_{EB}=5V$
* $V_{CE(sat)}$	-	-	300	mV	$I_C=100mA, I_B=10mA$
* $V_{BE(sat)1}$	-	-	1.0	V	$I_C=100mA, I_B=10mA$
* h_{FE1}	90	-	600		$V_{CE}=6V, I_C=1mA$
fT	-	250	-	MHz	$V_{CE}=6V, I_C=10mA$

* Pulse Test: Pulse Width $\leq 380\mu s$, Duty Cycle $\leq 2\%$

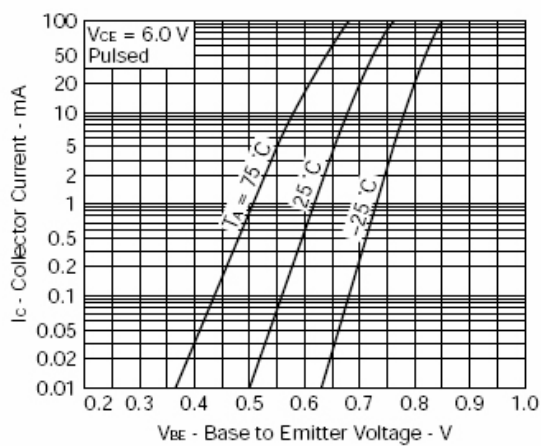
CLASSIFICATION OF h_{FE1}

Rank	P	Y	G	B
Range	90 - 180	135 - 270	200 - 400	300 - 600
Marking	L4	L5	L6	L7

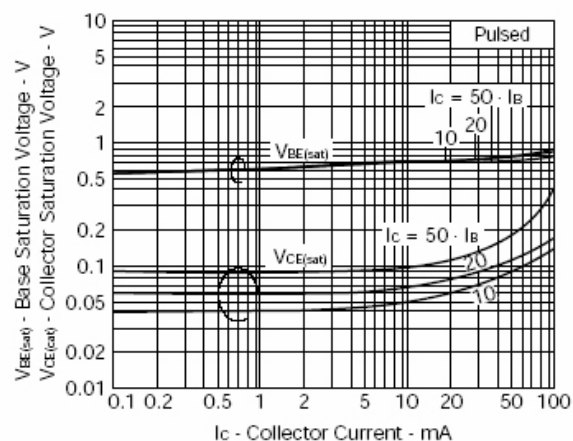
CHARACTERISTIC CURVES



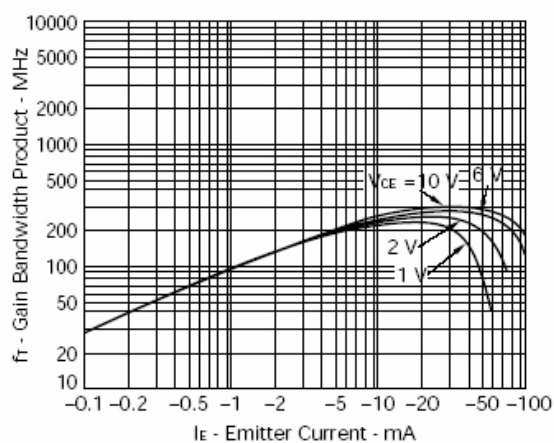
COLLECTOR CURRENT vs.
 BASE TO EMITTER VOLTAGE



COLLECTOR AND BASE SATURATION
 VOLTAGE vs. COLLECTOR CURRENT



GAIN BANDWIDTH PRODUCT vs.
 EMITTER CURRENT



INPUT AND OUTPUT CAPACITANCE
 vs. REVERSE VOLTAGE

