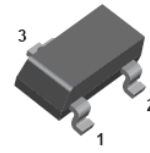


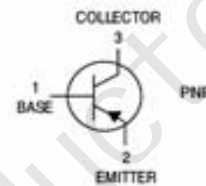
## FEATURES

- Complementary To 2SC1815.
- Excellent  $H_{FE}$  Linearity.
- High voltage and high current.
- Low noise.
- Collector-Emitter voltage  $BV_{CEO} = -50V$ .


**SOT-23**

## APPLICATIONS

- Low frequency , low noise amplifier.



## ORDERING INFORMATION

Type No.	Marking	Package Code
A1015	BA	SOT-23

## MAXIMUM RATING @ $T_a = 25^\circ C$ unless otherwise specified

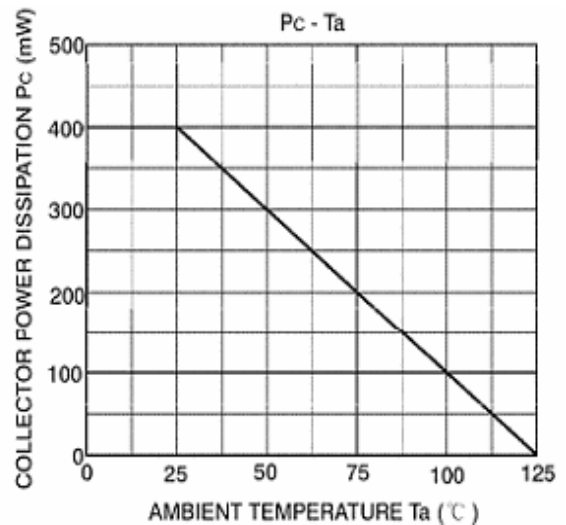
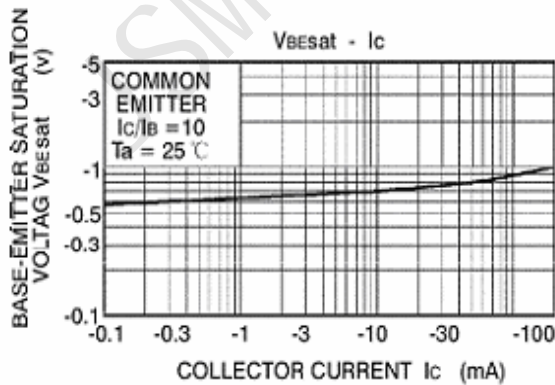
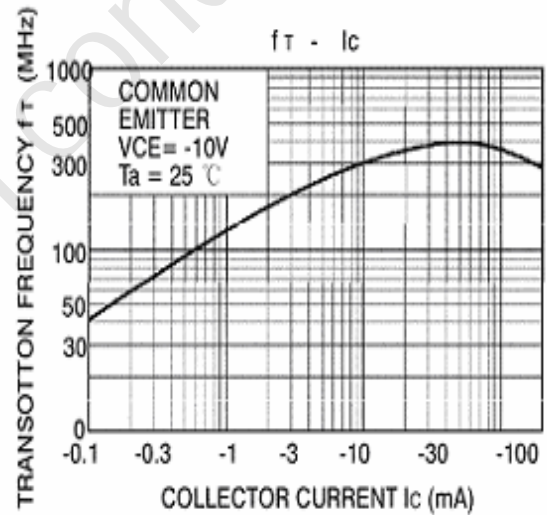
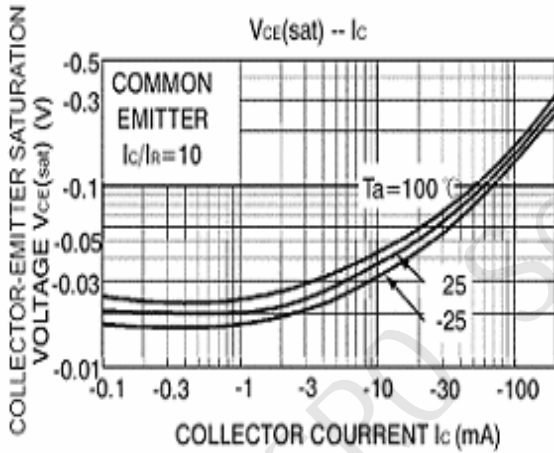
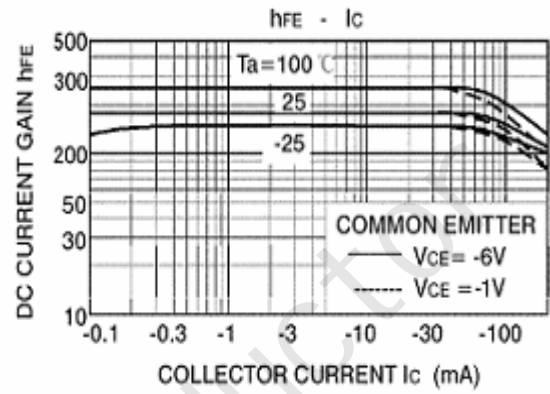
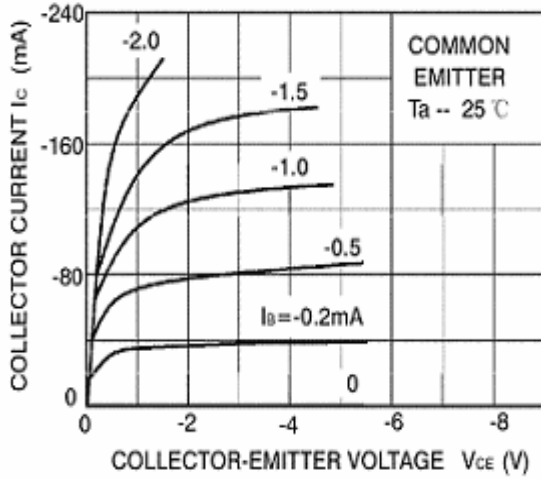
Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-50	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-150	mA
$P_C$	Collector Dissipation	400	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55 to +150	$^\circ C$

## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -0.1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -50V, I_E = 0$			-0.1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE} = -50V, I_B = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE} = -6V, I_C = -2mA$	70		400	
		$V_{CE} = -6V, I_C = -150mA$	25	80		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$		-0.1	-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100mA, I_B = -10mA$			-1.1	V
Transition frequency	$f_T$	$V_{CE} = -10V, I_C = -1mA$ $f = 30MHz$	80			MHz

 CLASSIFICATION OF  $h_{FE(1)}$ 

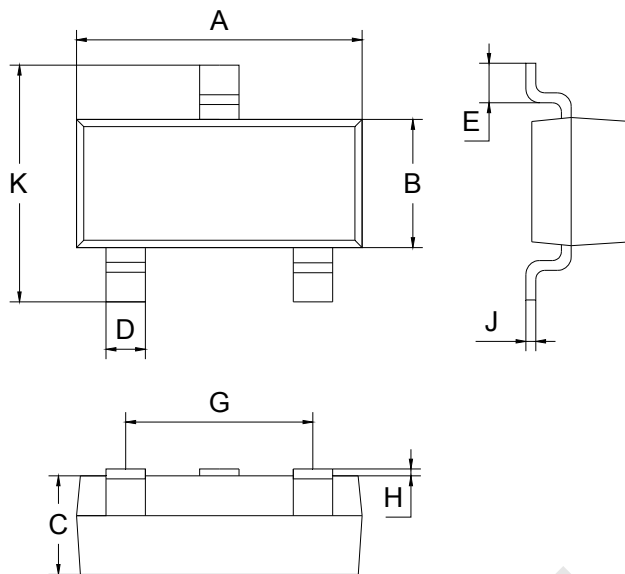
Rank	L	H
Range	130-200	200-400

TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified


## PACKAGE OUTLINE

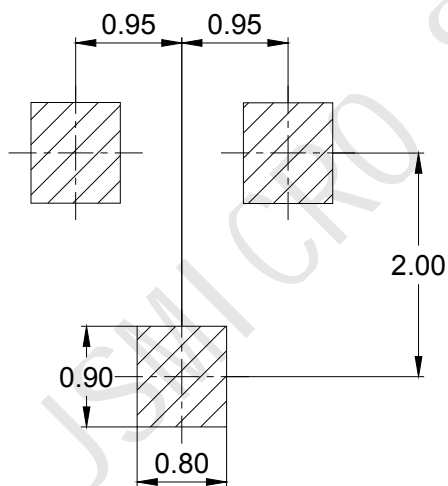
Plastic surface mounted package

SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

## SOLDERING FOOTPRINT



Unit : mm

## PACKAGE INFORMATION

Device	Package	Shipping
A1015	SOT-23	3000/Tape&Reel

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