

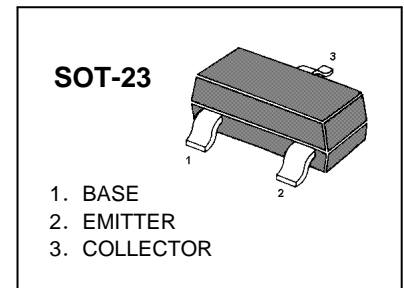
2SC1623

TRANSISTOR (NPN)

FEATURE

High DC current gain :  $h_{FE}=200(\text{Typ})$   $V_{CE}=6V$ ,  $I_C=1mA$

High voltage:  $V_{CEO}=50V$



MARKING: L6

MAXIMUM RATINGS ( $T_A=25^\circ C$  unless otherwise noted)

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	60	V
$V_{CEO}$	Collector-Emitter Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current -Continuous	100	mA
$P_C$	Collector Power Dissipation	200	mW
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature	-55-150	$^\circ C$

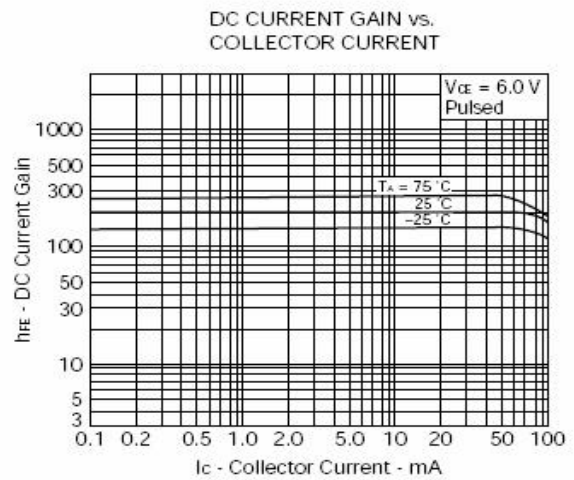
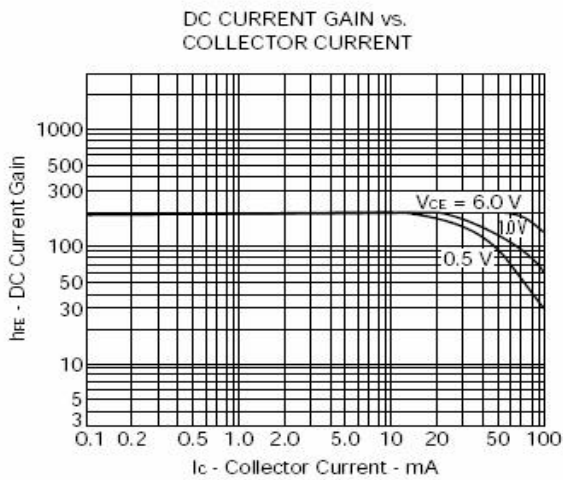
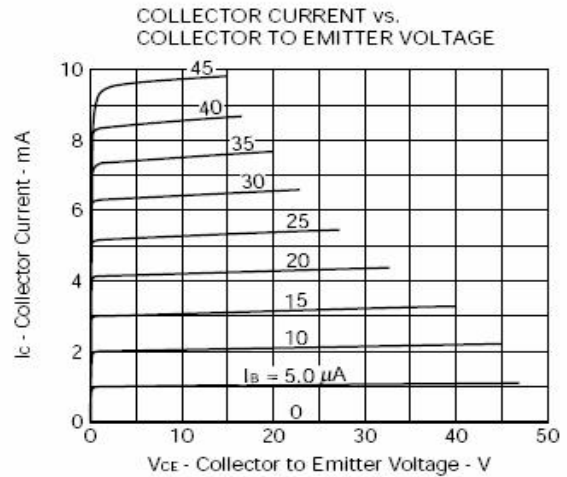
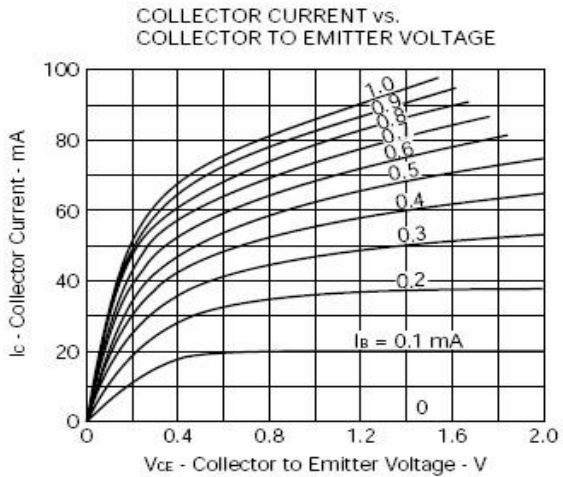
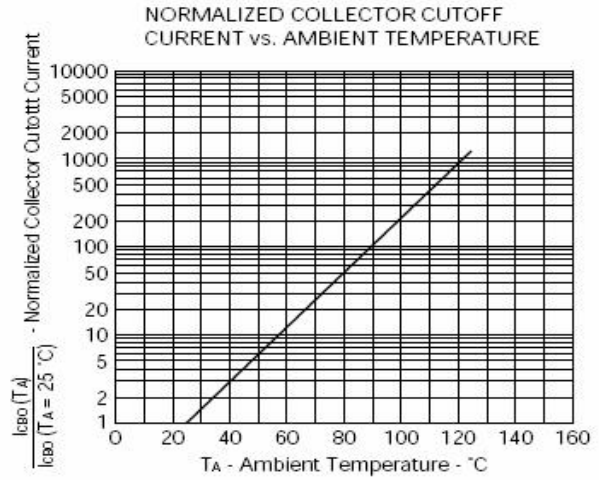
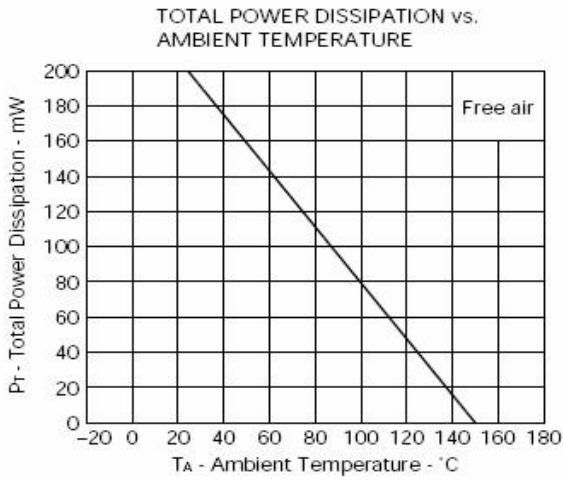
ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A$ , $I_E=0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA$ , $I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A$ , $I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=60V$ , $I_E=0$			0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V$ , $I_C=0$			0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=6V$ , $I_C=1mA$	200		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA$ , $I_B=10mA$			0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=100mA$ , $I_B=10mA$			1	V
Transition frequency	$f_T$	$V_{CE}=6V$ , $I_C=10mA$		250		MHz



# Typical Characteristics

# 2SC1623

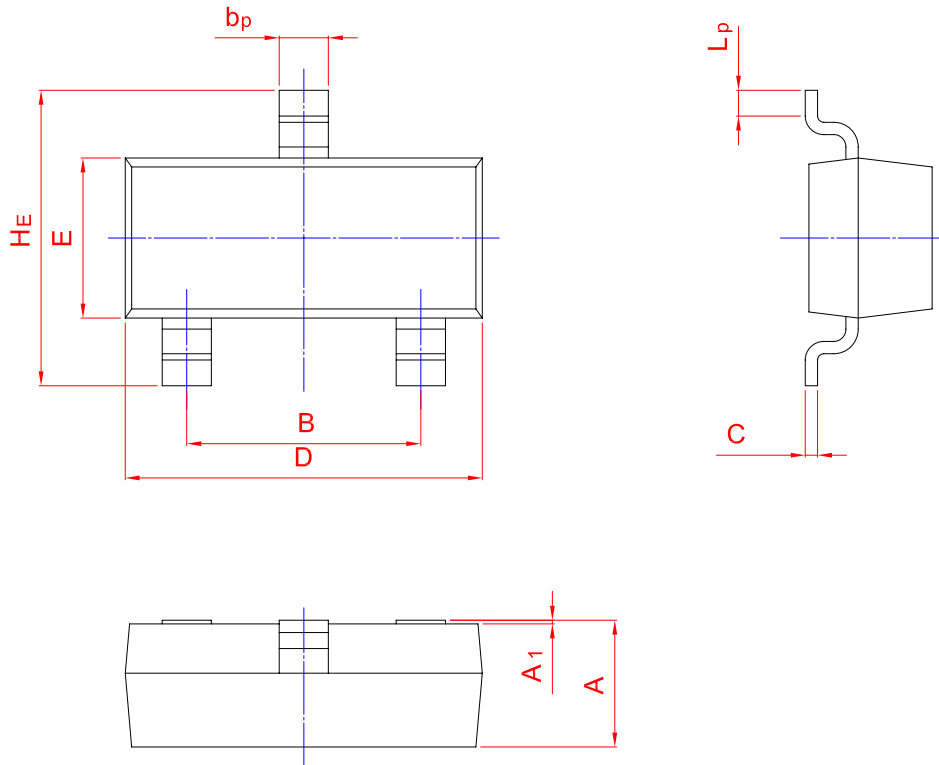
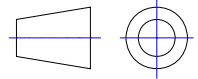




## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	Hε	A1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

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