

## • FEATURES

Low noise: NF=1dB (Typ.), 10 dB(Max).

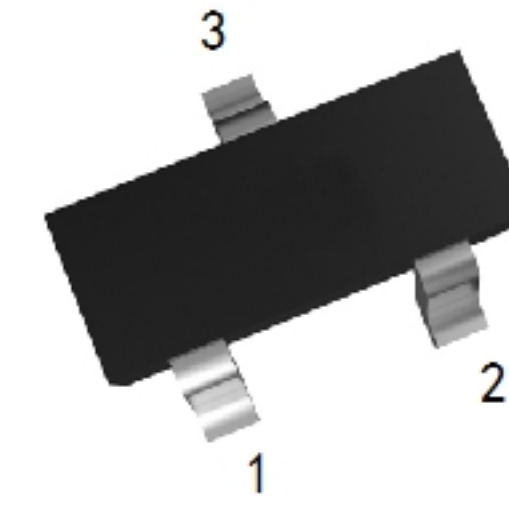
Complementary to 2SA1162.

High voltage and high current.

High  $h_{FE}$  linearity.



SOT-23



1: Base 2: Emitter 3: Collector

## • APPLICATIONS

Audio frequency general purpose amplifier applications.

## • ORDERING INFORMATION

Type No.	Marking	Package Code
2SC2712	LO•/LY•/LG•/LL•	SOT-23

## • MAXIMUM RATING @ Ta=25°C unless otherwise specified

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	150	mA
$P_C$	Collector Dissipation	150	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55~150	°C

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

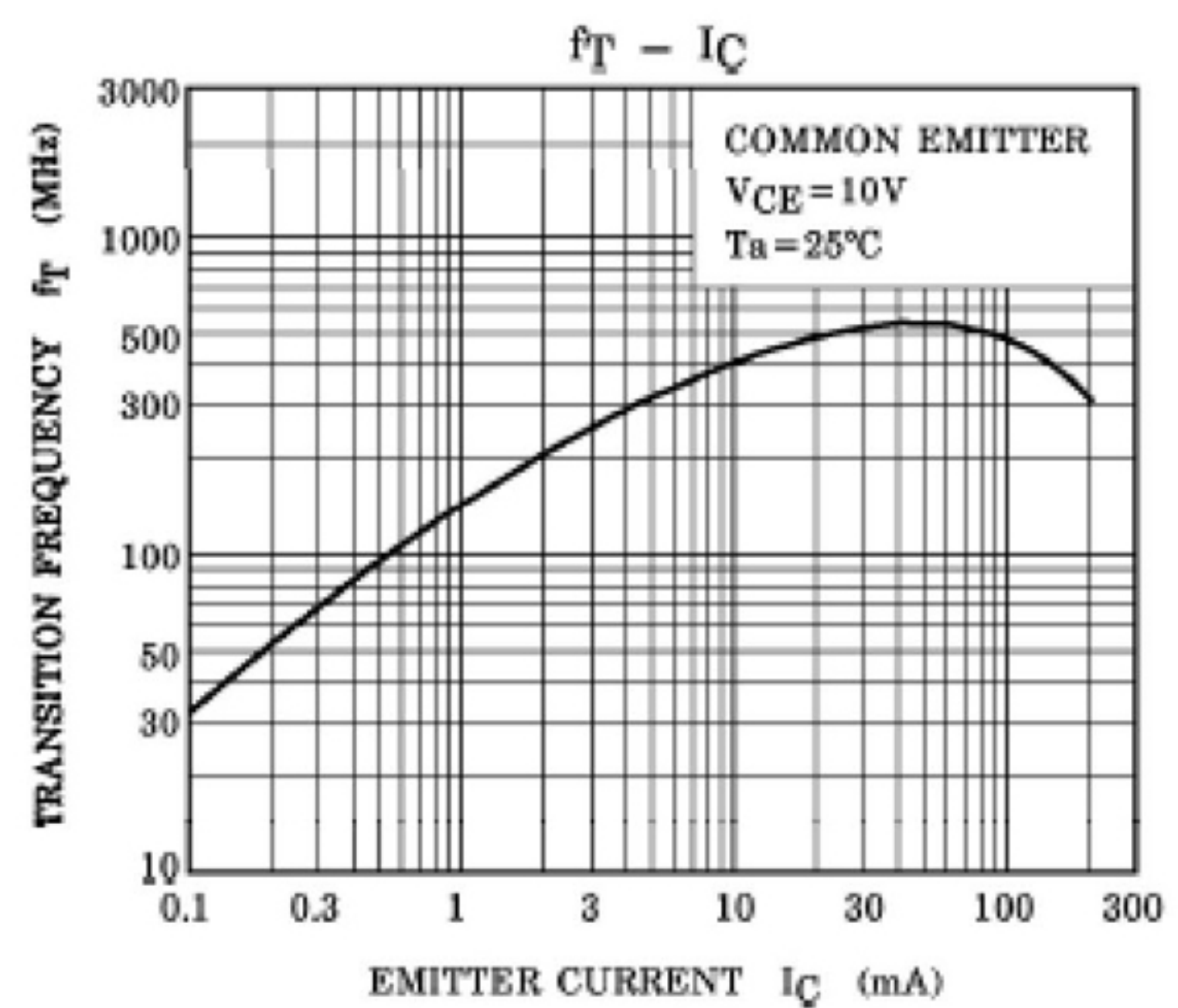
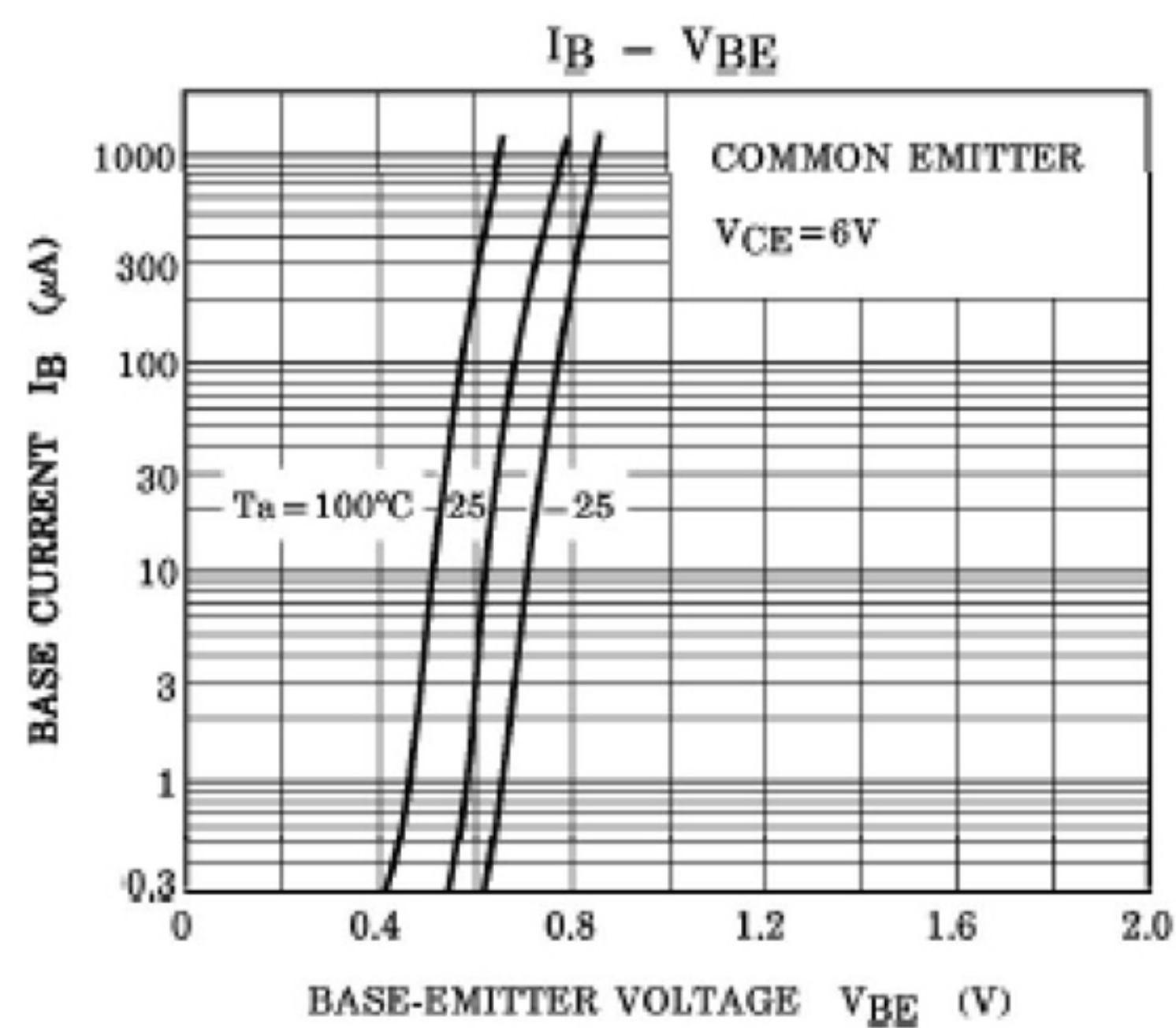
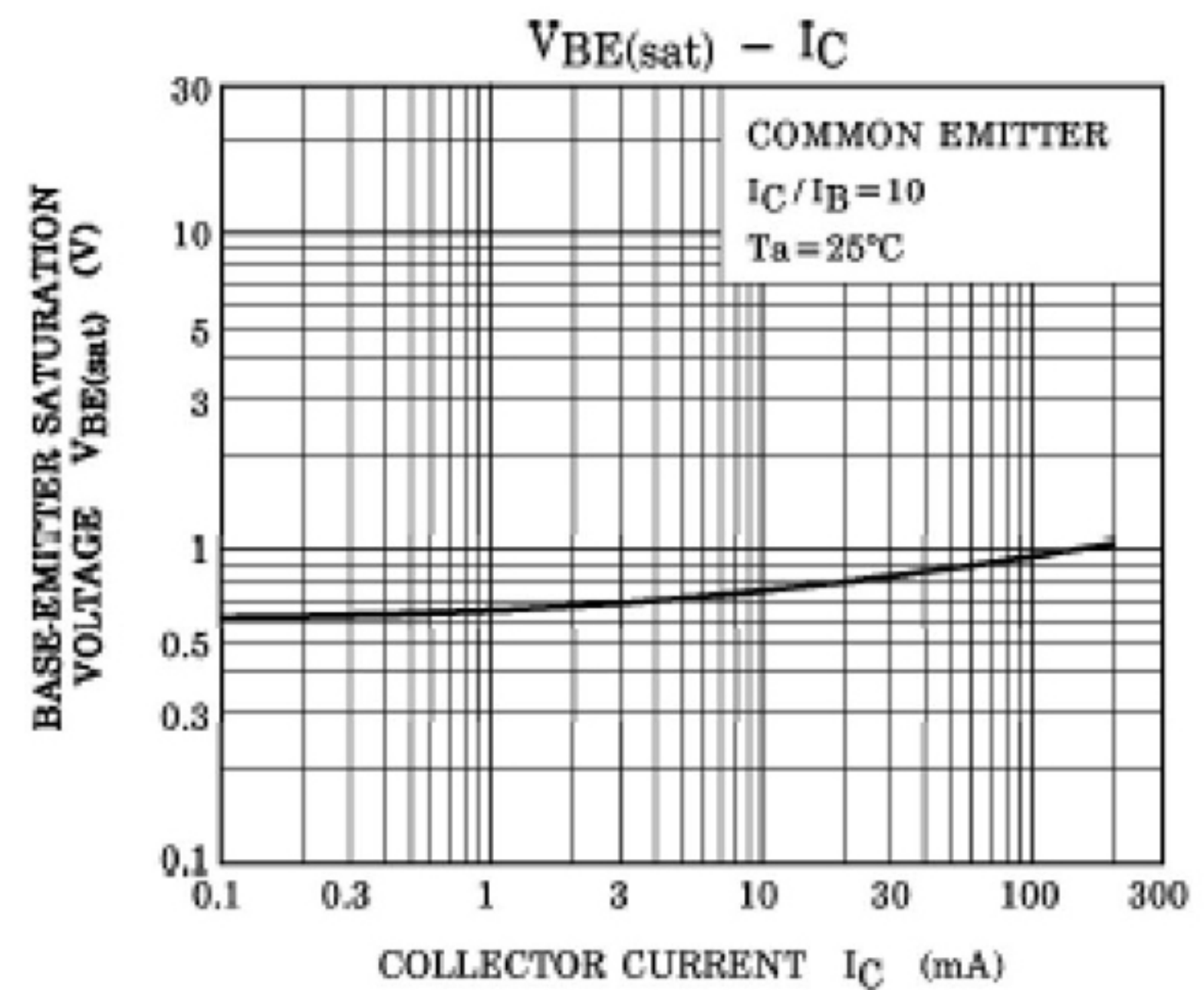
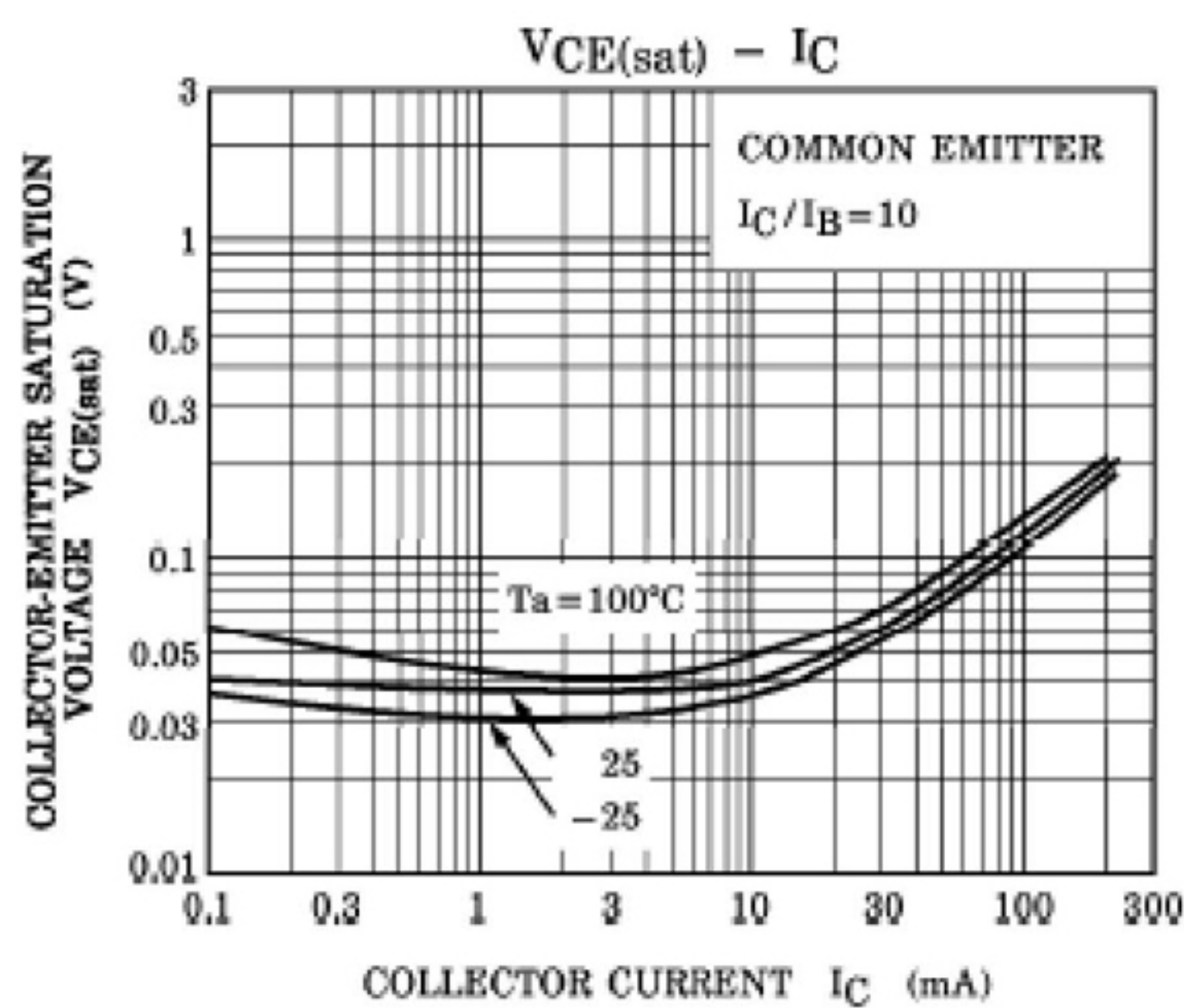
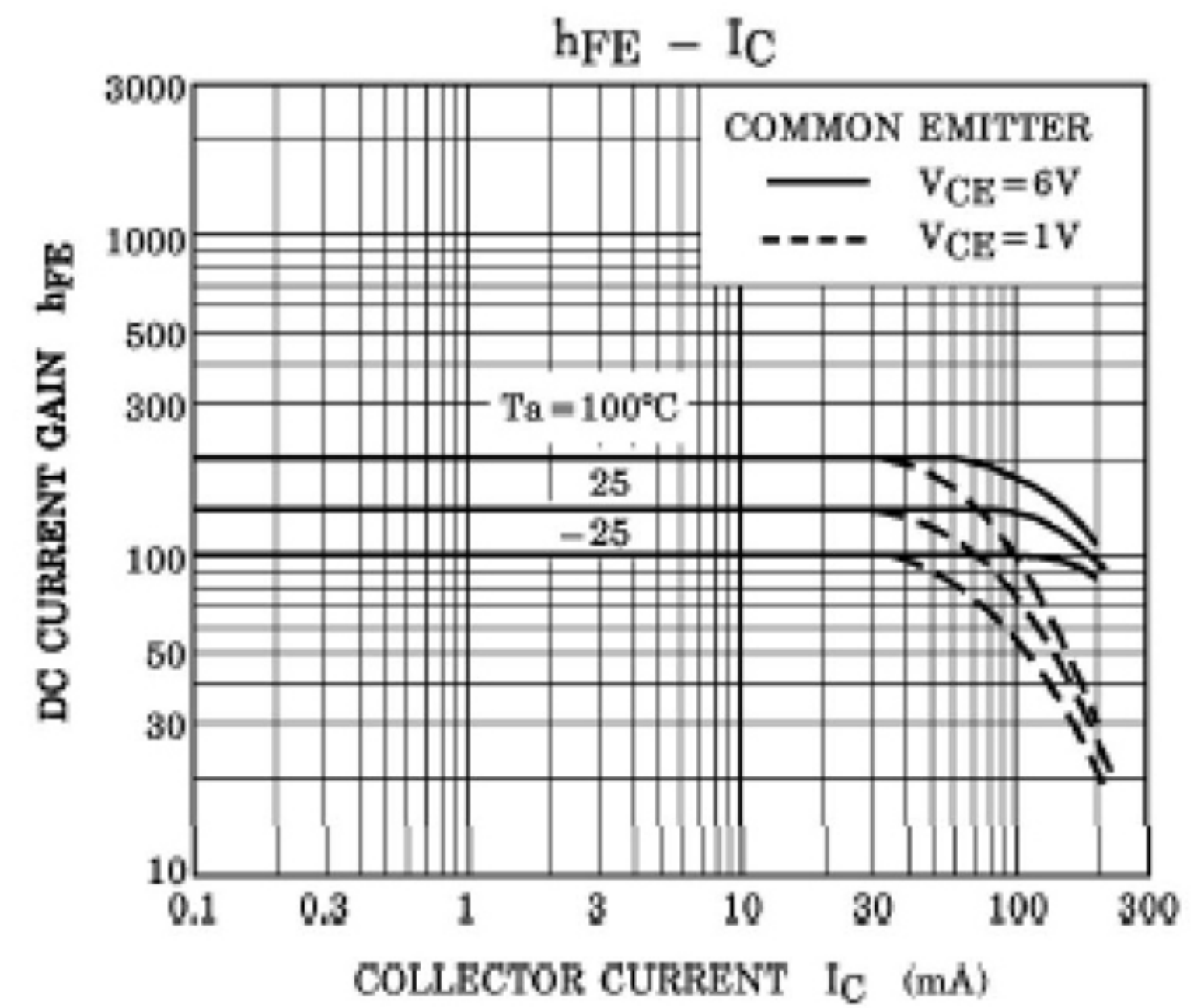
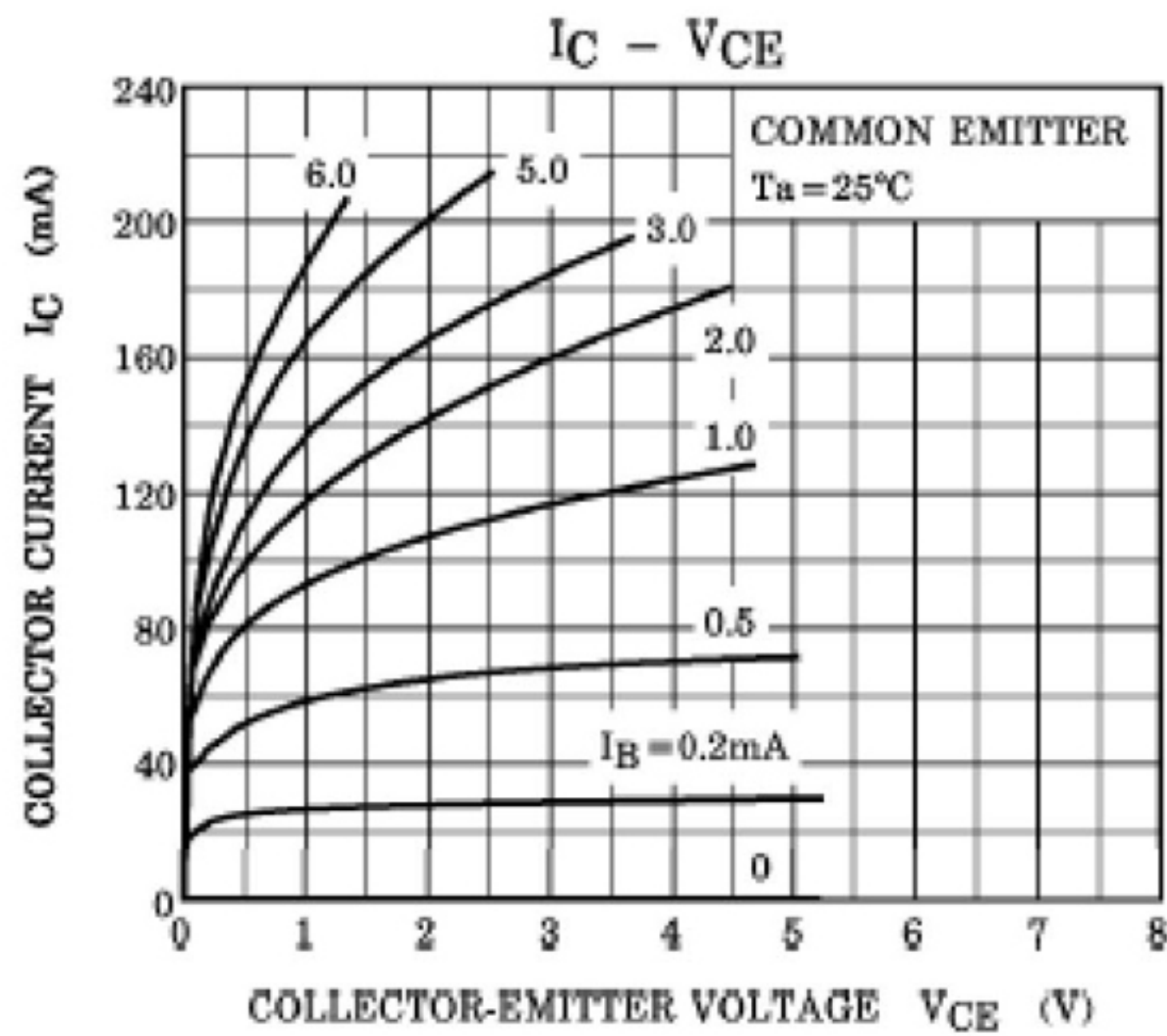
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=0.1mA, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=60V, I_E=0$			0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=6V, I_C=2mA$	70		700	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$		0.1	0.25	V
Transition frequency	$f_T$	$V_{CE}=10V, I_C=1mA$	80			MHz
Output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1kHz$		2.0	3.5	pF
Noise Figure	NF	$V_{CE}=6V, I_C=0.1mA, f=1kHz$		1.0	10	dB

● CLASSIFICATION OF  $h_{FE(1)}$

Rank	O	Y	GR	BL
Range	70-140	120-240	200-400	350-700
Marking	LO	LY	LG	LL



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

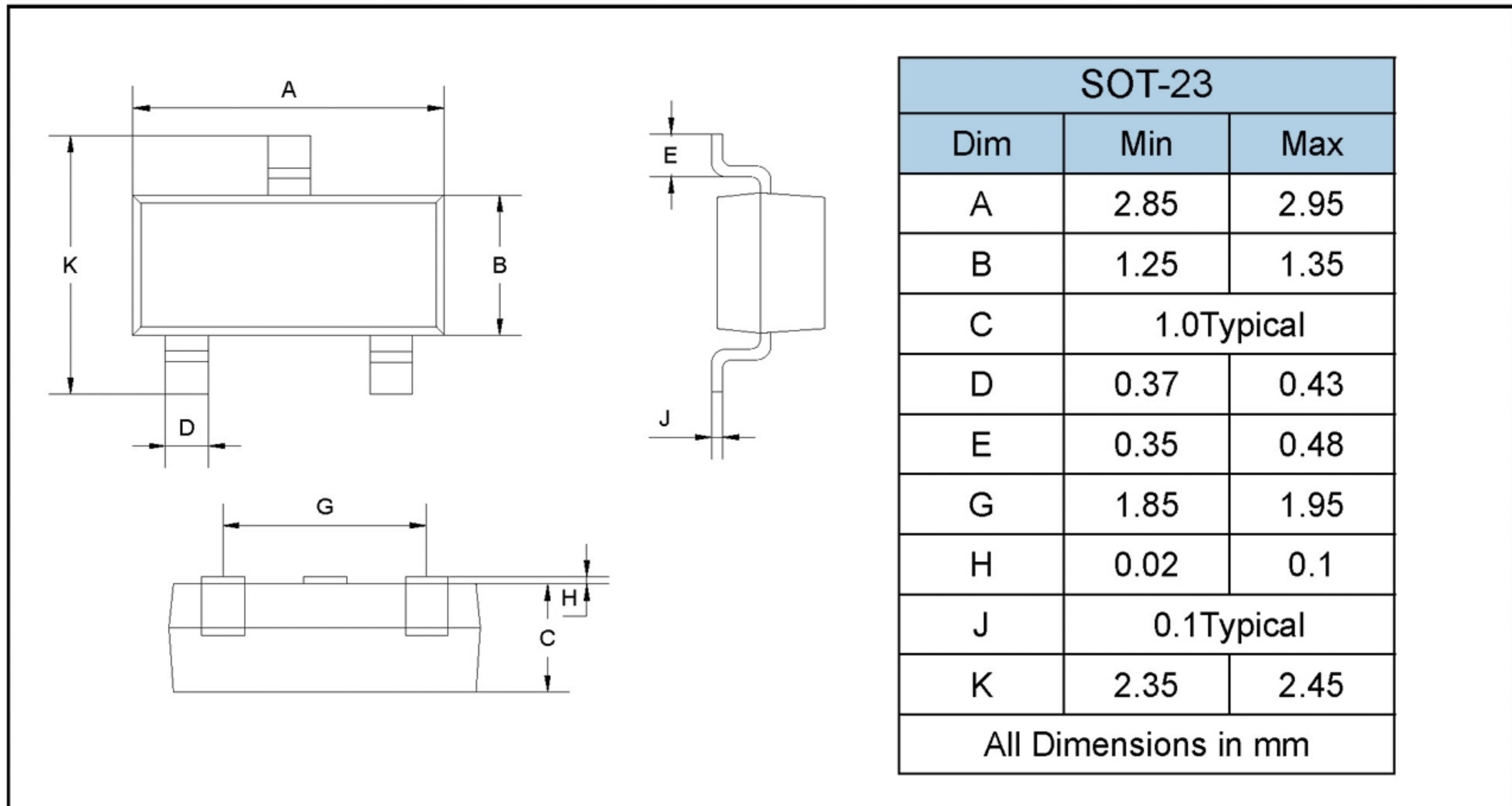




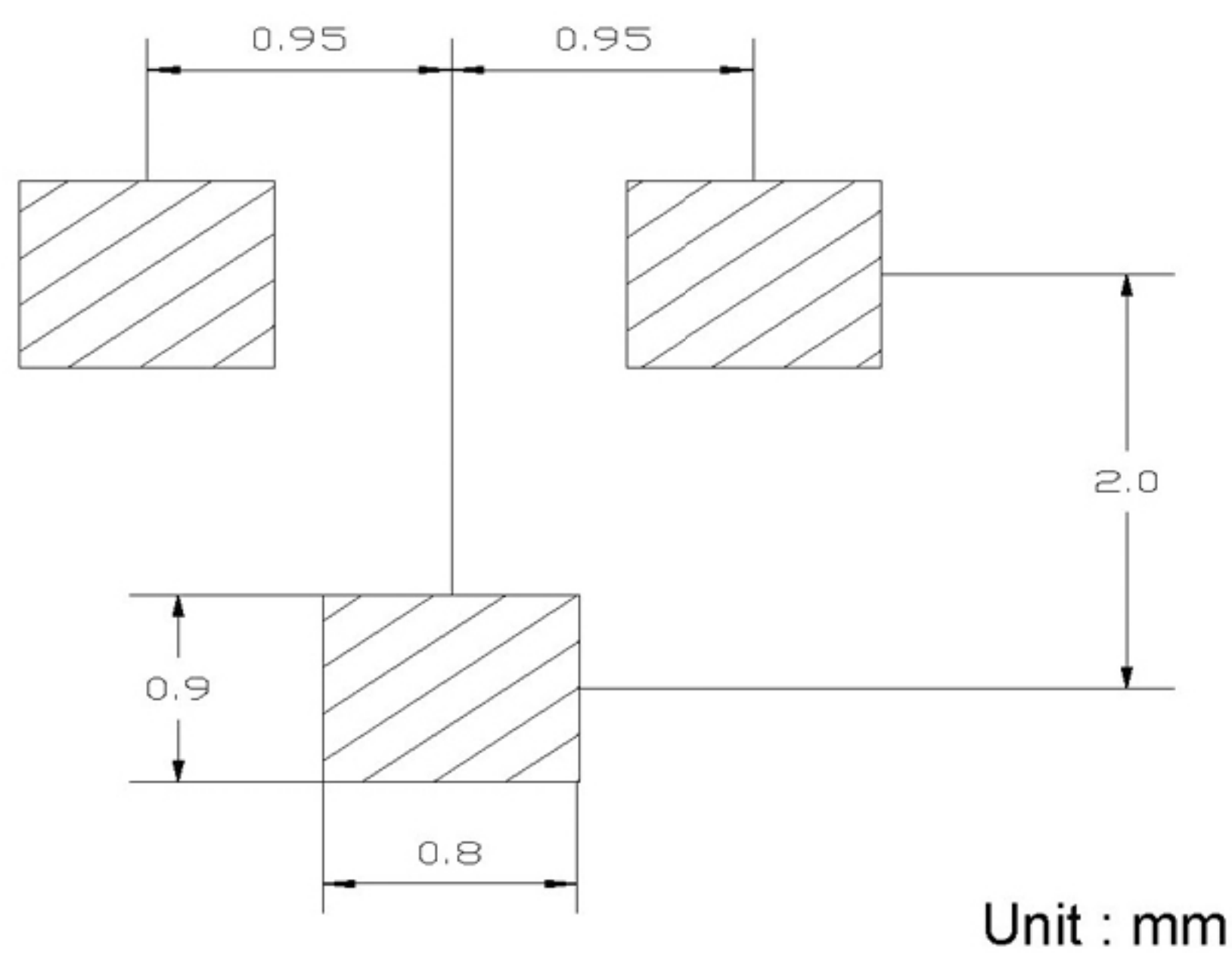
## • PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



## • SOLDERING FOOTPRINT



## • PACKAGE INFORMATION

Device	Package	Shipping
2SC2712	SOT-23	3000/Tape&Reel

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHIKUES\(时科\)](#)