

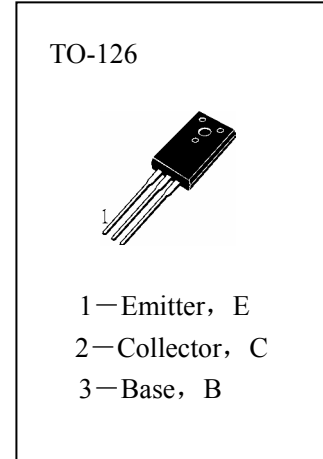
# HS600K

## APPLICATIONS

Low frequency power amplifier, Medium Seed switching.

## ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

T <sub>stg</sub>	Storage Temperature	-55~150°C
T <sub>j</sub>	Junction Temperature	150°C
P <sub>C</sub>	Collector Dissipation (T <sub>c</sub> =25°C)	1W
V <sub>CB0</sub>	Collector-Base Voltage	120V
V <sub>CEO</sub>	Collector-Emitter Voltage	120V
V <sub>EBO</sub>	Emitter-Base Voltage	5V
I <sub>C</sub>	Collector Current	1A

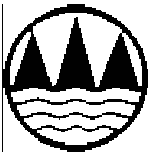


## ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

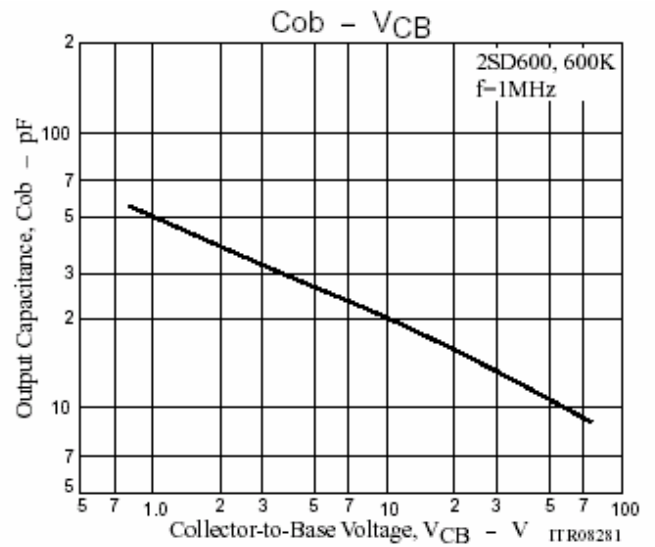
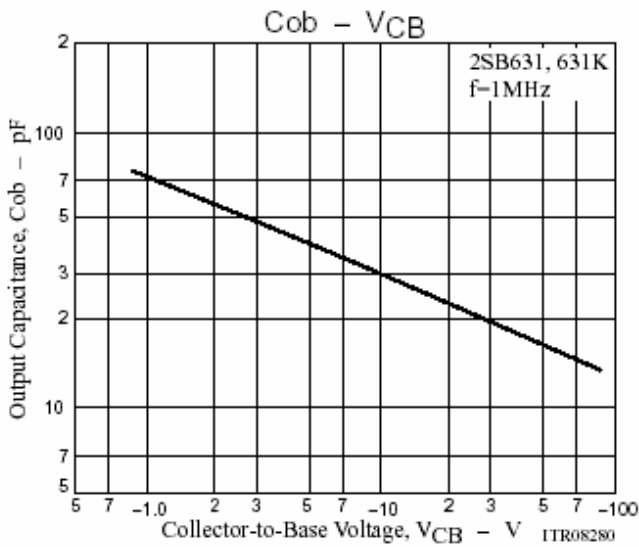
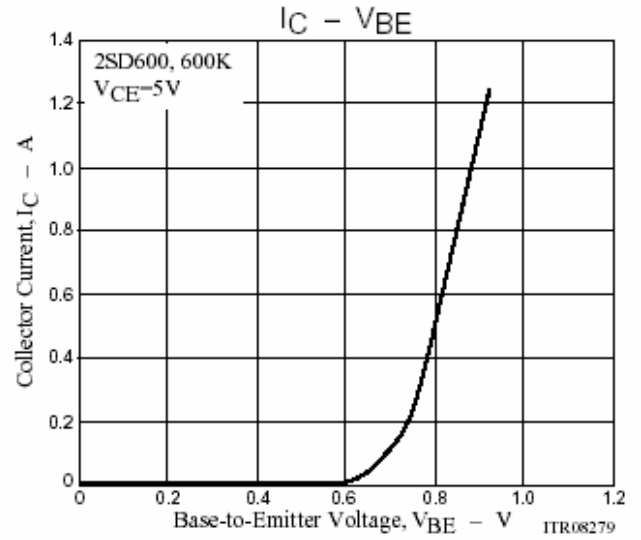
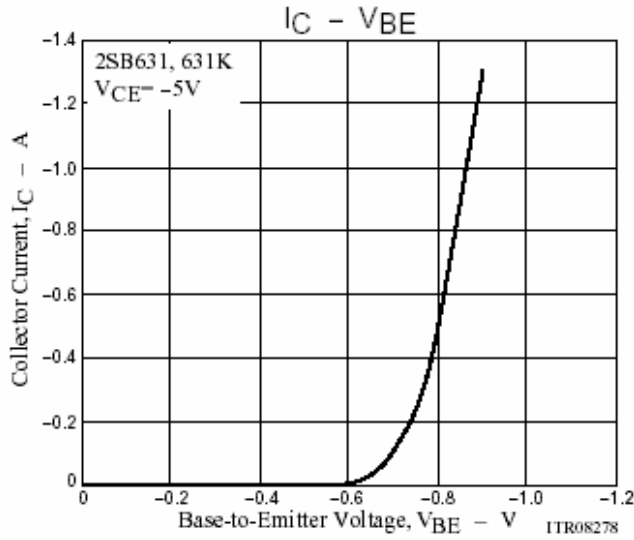
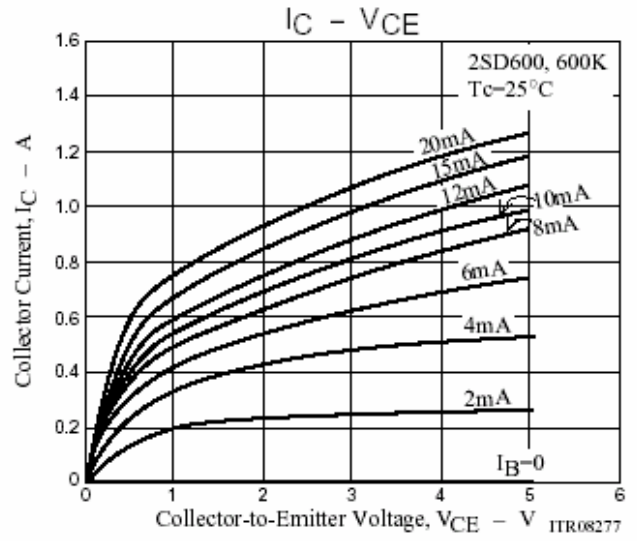
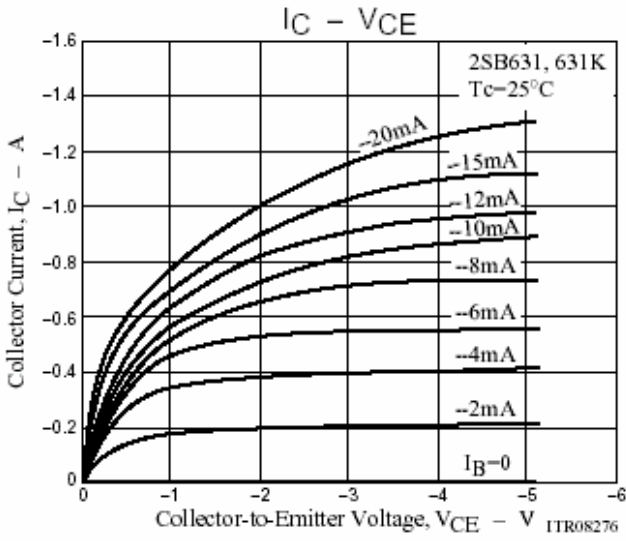
Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CB0</sub>	Collector-Base Breakdown Voltage	120			V	I <sub>C</sub> =10 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	120			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	5			V	I <sub>E</sub> =10 μ A, I <sub>C</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			1	μ A	V <sub>CB</sub> =50V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			1	μ A	V <sub>EB</sub> =4V, I <sub>C</sub> =0
H <sub>FE</sub> (1)	DC Current Gain	60		320		V <sub>CE</sub> =5V, I <sub>C</sub> =50mA
H <sub>FE</sub> (2)	DC Current Gain	20				V <sub>CE</sub> =5V, I <sub>C</sub> =500mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		0.15	0.4	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage		0.85	1.2	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
t <sub>OFF</sub>	Turn-Off Time		500		nS	} See specified test circuit
t <sub>STG</sub>	Storage Time		700		nS	
t <sub>F</sub>	Fall Time		100		nS	
f <sub>t</sub>	Current Gain-Bandwidth Product		130		MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA,
C <sub>ob</sub>	Output Capacitance		20		pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz

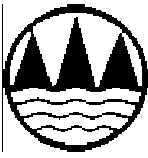
## h<sub>FE</sub> Classification

D	E	F
60—120	100—200	160—320



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