

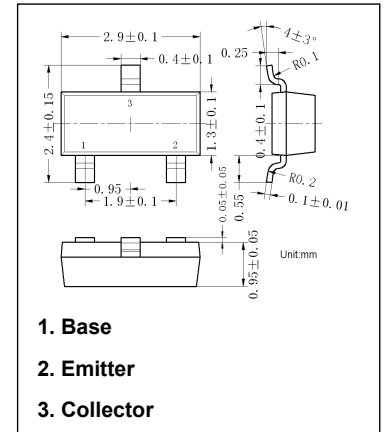
# SOT-23 Plastic-Encapsulate Transistors

## A733 PNP Transistors

### Features

- Collector-Base Voltage
- Complement to C945

Marking: CS



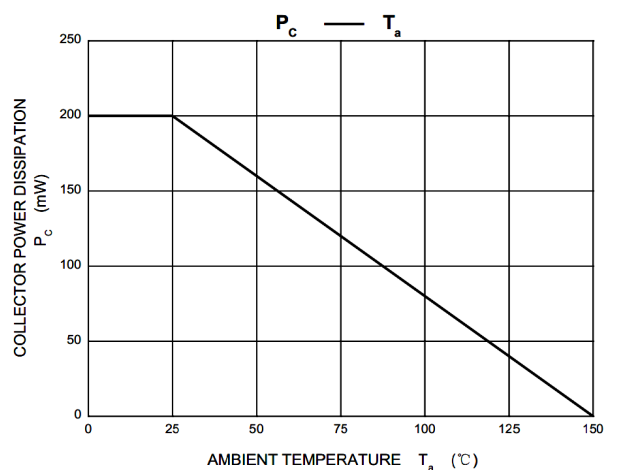
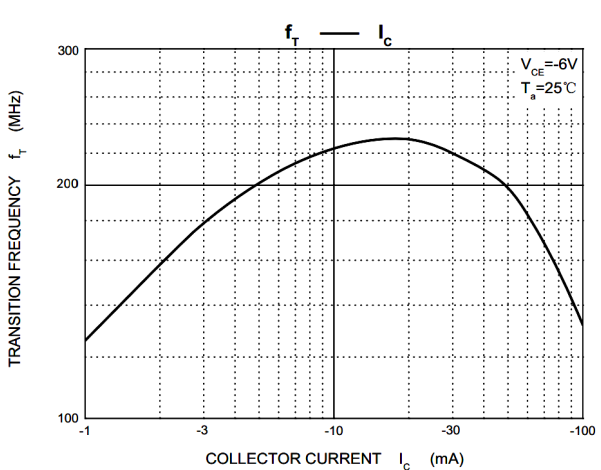
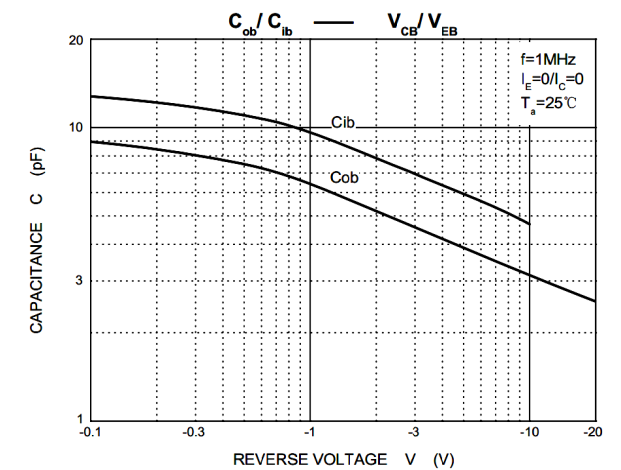
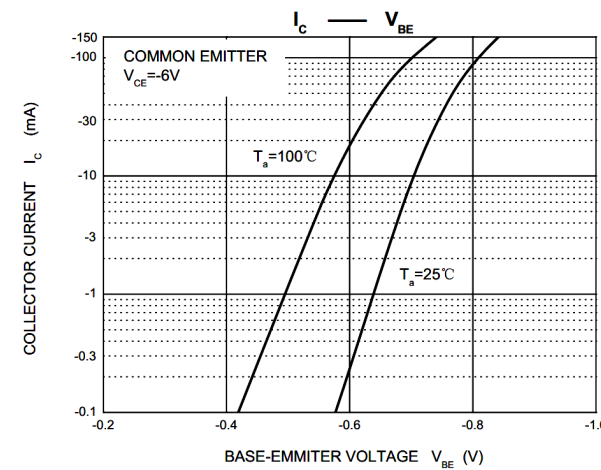
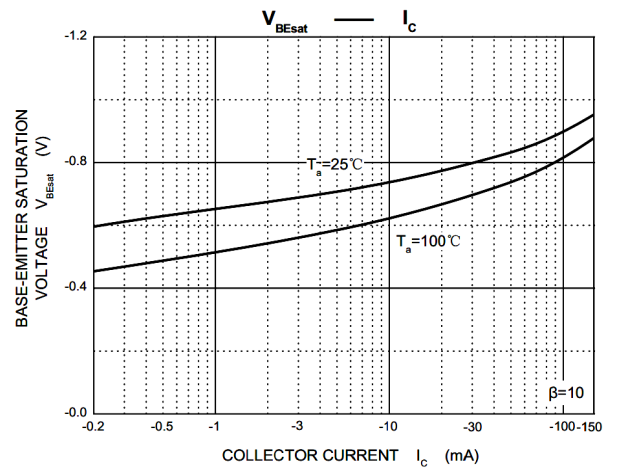
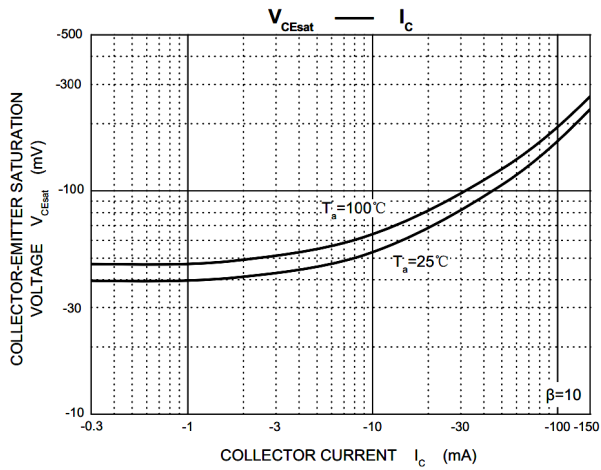
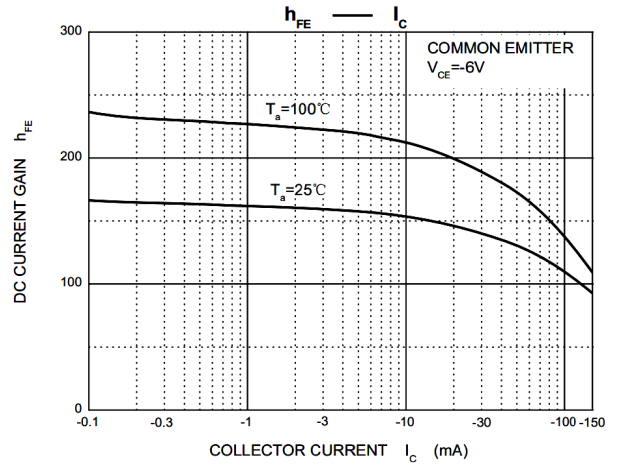
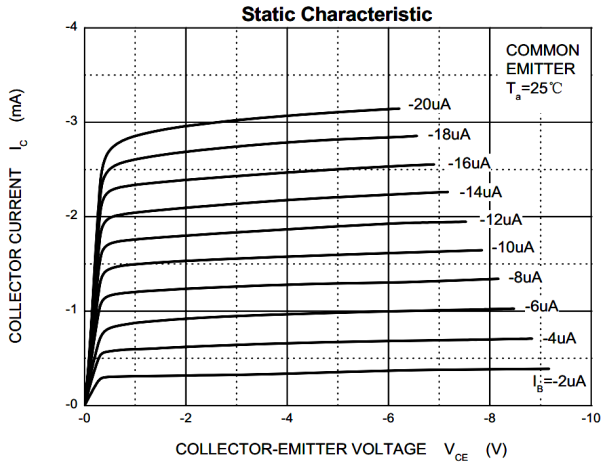
### Maximum Ratings (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector Base Voltage	-60	V
V <sub>CEO</sub>	Collector Emitter Voltage	-50	V
V <sub>EBO</sub>	Emitter Base Voltage	-5	V
I <sub>c</sub>	Collector Current	-150	mA
P <sub>c</sub>	Collector Power Dissipation	200	mW
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	625	°C/W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	- 55 to +150	°C

### Electrical Characteristics (T<sub>a</sub>=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>c</sub> =-5μA, I <sub>E</sub> =0	-60			V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>c</sub> =-1mA, I <sub>B</sub> =0	-50			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> = -50μA, I <sub>C</sub> =0	-5			V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =-60V, I <sub>E</sub> =0			-0.1	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =-5V, I <sub>C</sub> =0			-0.1	μA
h <sub>FE(1)</sub>	DC current gain	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1mA	120			
h <sub>FE(2)</sub>		V <sub>CE</sub> =-6V, I <sub>C</sub> =-1mA	300		400	
V <sub>CE(sat)</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA		-0.18	-0.3	V
V <sub>BE(on)</sub>	Base-emitter voltage	V <sub>CE</sub> =-6V, I <sub>C</sub> =-1.0mA	-0.58	-0.62	-0.68	V
f <sub>T</sub>	Transition frequency	V <sub>CE</sub> =-6V, I <sub>C</sub> =-10mA	50			MHz
C <sub>ob</sub>	Collector output capacitance	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz		4.5	7	pF
NF	Noise figure	V <sub>CE</sub> =-6V, I <sub>C</sub> =-0.3mA, R <sub>g</sub> =10kΩ, f=100Hz		6	20	dB

# Typical Characteristics



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