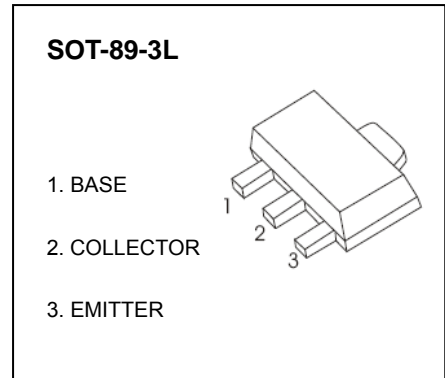


# SOT-89-3L Plastic-Encapsulate Transistors

**KTA1666** TRANSISTOR (PNP)

**FEATURES**

- Complementary to KTC4379
- Small Flat Package
- Low Saturation Voltage
- Power Amplifier and Switching Application



**MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	-50	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	-2	A
P <sub>C</sub>	Collector Power Dissipation	500	mW
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	250	°C/W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = -1mA, I <sub>E</sub> =0	-50			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-10mA, I <sub>B</sub> =0	-50			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-1mA, I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> =-50V, I <sub>E</sub> =0			-100	nA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-5V, I <sub>C</sub> =0			-100	nA
DC current gain	h <sub>FE(1)</sub> *	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA	70		240	
	h <sub>FE(2)</sub> *	V <sub>CE</sub> =-2V, I <sub>C</sub> =-1.5A	40			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub> *	I <sub>C</sub> =-1A, I <sub>B</sub> =-50mA			-0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub> *	I <sub>C</sub> =-1A, I <sub>B</sub> =-50mA			-1.2	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz			40	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> = -500mA		120		MHz

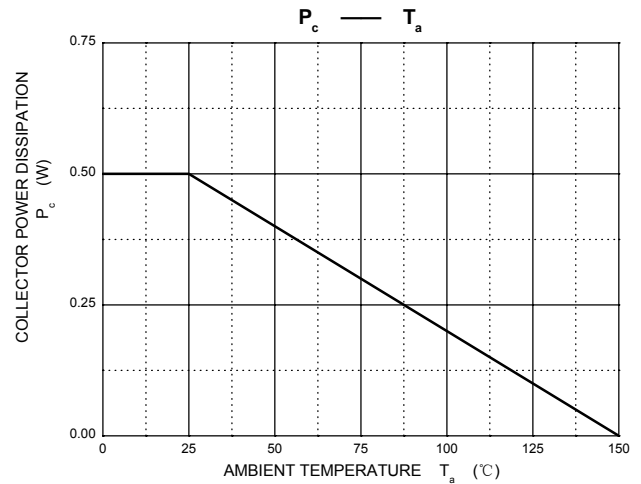
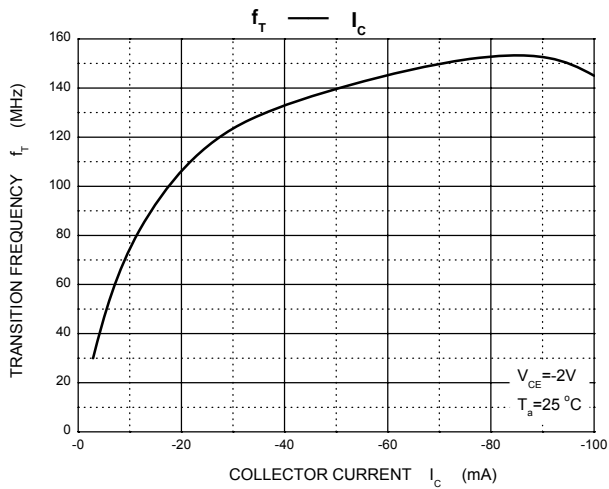
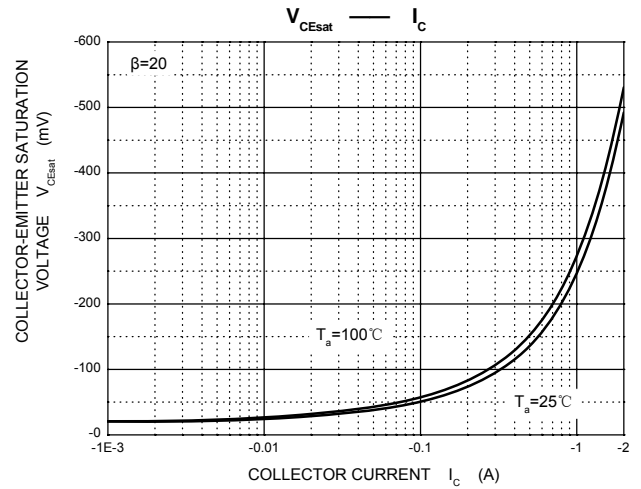
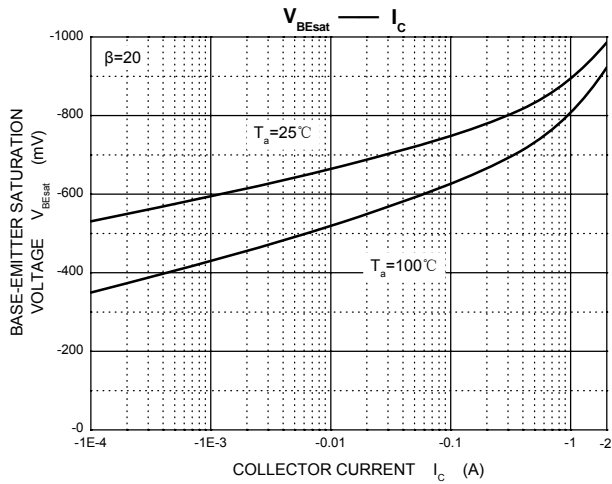
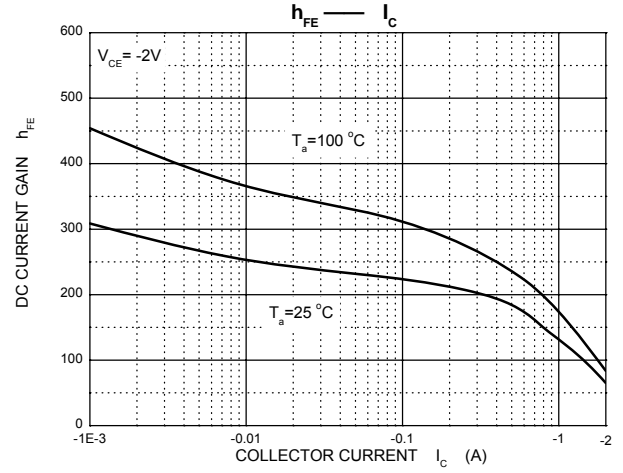
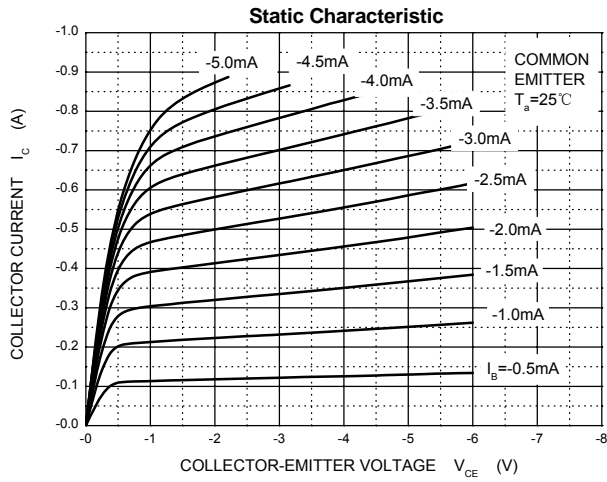
\*Pulse test: pulse width ≤300mS, duty cycle≤ 2.0%.

**CLASSIFICATION OF h<sub>FE(1)</sub>**

RANK	O	Y
RANGE	70 - 140	120 - 240
MARKING	WO	WY

# Typical Characteristics

# KTA1666



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