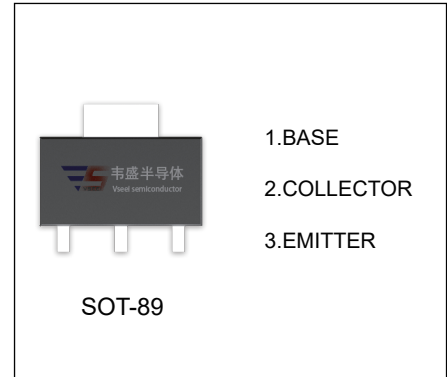


# KTA1666 TRANSISTOR (PNP)

## FEATURES

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



## MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-50	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current	-2	A
$P_C$	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C/W}$
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -1\text{mA}, I_E = 0$	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -1\text{mA}, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -50\text{V}, I_E = 0$			-100	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$			-100	nA
DC current gain	$h_{FE(1)}^*$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$	70		240	
	$h_{FE(2)}^*$	$V_{CE} = -2\text{V}, I_C = -1.5\text{A}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}^*$	$I_C = -1\text{A}, I_B = -50\text{mA}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}^*$	$I_C = -1\text{A}, I_B = -50\text{mA}$			-1.2	V
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$			40	pF
Transition frequency	$f_T$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$		120		MHz

\*Pulse test: pulse width  $\leq 300\text{ms}$ , duty cycle  $\leq 2.0\%$ .

## CLASSIFICATION OF $h_{FE(1)}$

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

