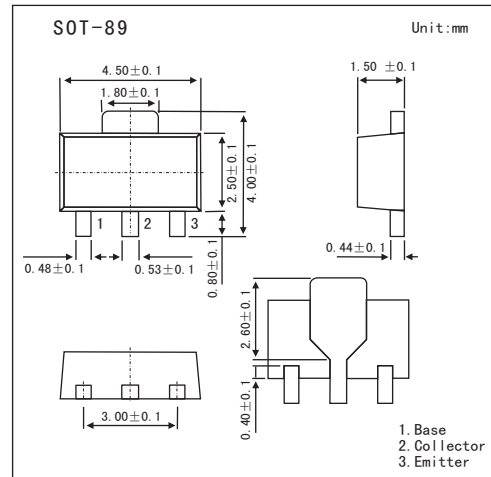


# KTC4379

## Features

- Collector Power Dissipation:  $P_c=500\text{mW}$
- Collector Current:  $I_c=2\text{A}$
- Complementary to KTA1666



## Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	50	V
Collector-Emitter voltage	$V_{CEO}$	50	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector Current	$I_c$	2	A
Collector Power Dissipation	$P_c$	500	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 150	$^\circ\text{C}$

## Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditons	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	$h_{FE}$	$V_{CE}=2\text{V}, I_c=500\text{mA}$	70		240	
		$V_{CE}=2\text{V}, I_c=1.5\text{A}$	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
Transition frequency	$f_T$	$V_{CE}=2\text{V}, I_c=500\text{mA}$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$		30		pF

## $h_{FE}$ Classification

Marking	UO	UY
Rank	O	Y
Range	70~140	120~240