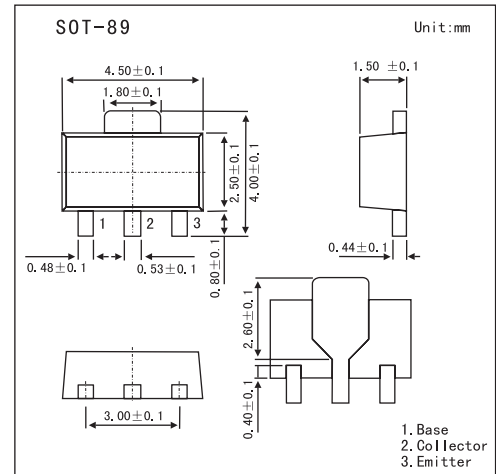


## Triple Diffused NPN Transistor

## KTC4372

## ■ Features

- High Voltage:  $V_{CE0}=150V$
- High Transition Frequency:  $f_T=120MHz$
- Small Flat Package

■ Absolute Maximum Ratings  $T_a = 25^\circ C$ 

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	200	V
Collector-Emitter Voltage	$V_{CEO}$	150	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	50	mA
Base Current	$I_B$	10	mA
Collector Power Dissipation	$P_C$	500	mW
	$P_{C^*}$	1	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 to 150	$^\circ C$

\* mounted on ceramic substrate (250mm<sup>2</sup>X0.8t)

■ Electrical Characteristics  $T_a = 25^\circ C$ 

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=200V, I_E=0$			0.1	nA
Emitter-Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	nA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=10mA$	70		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$			0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=30mA$			1.0	V
Transition Frequency	$f_T$	$V_{CE}=30V, I_C=10mA$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$		3.5	5.0	pF

■  $h_{FE}$  Classification

Marking	AO	AY
Rank	O	Y
Type	70~140	120~240