

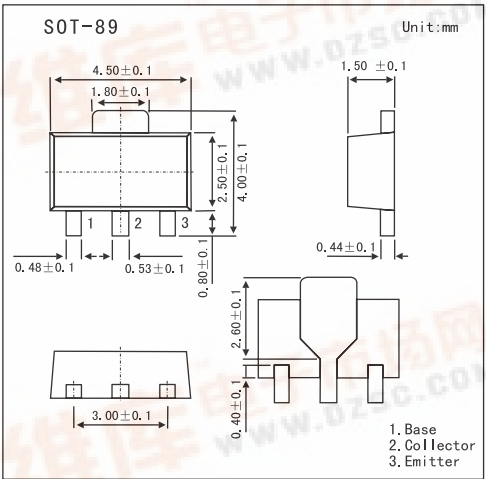
SMD Type

Transistors

Epitaxial Planar NPN Transistor
KTC4373

■ Features

- High Voltage: $V_{CE0}=120V$
- 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_{CB0}	120	V
Collector-Emitter Voltage	V_{CE0}	120	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	800	mA
Base Current	I_B	160	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 (250mm²X0.8t)

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB}=120V, I_E=0$			100	nA
Emitter-Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$			100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=10mA, I_B=0$	120			V
Collector-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5			V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=100mA$	80		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$			1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V, I_C=500mA$			1.0	V
Transition Frequency	f_T	$V_{CE}=5V, I_C=100mA$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$			30	pF

■ h_{FE} Classification

Marking	CO	CY
Rank	O	Y
Type	80~160	120~240

