

HIGH VOLTAGE SWITCHING APPLICATION.

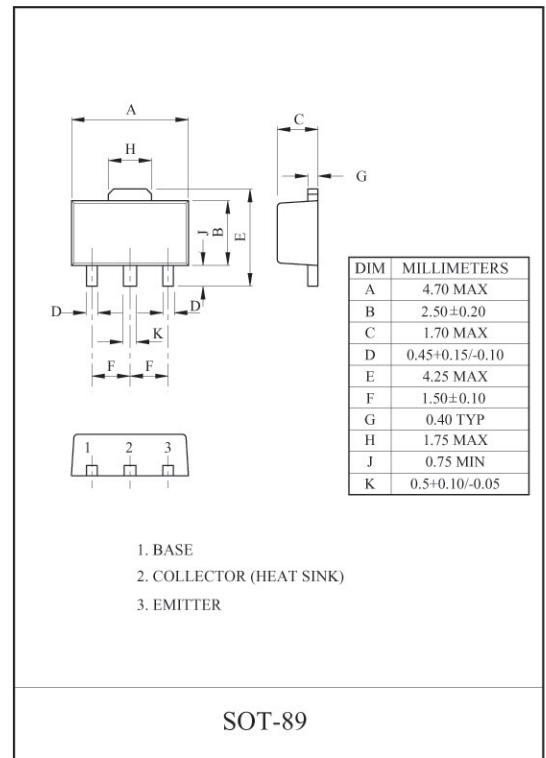
FEATURES

- High Voltage : $V_{CEO}=150V$.
- High Transition Frequency : $f_T=120MHz(Typ.)$.
- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTA1660.

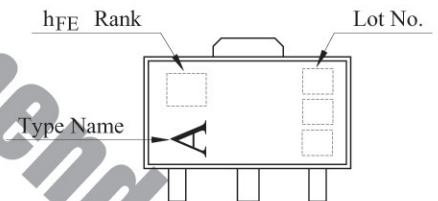
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	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	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

P_C : KTC4372 mounted on ceramic substrate (250mm² 0.8t)



Marking



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=200V$ $I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$ $I_C=0$	-	-	0.1	μA
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=5V$, $I_C=10mA$	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

Note : h_{FE} Classification O:70 ~ 140 Y:120 ~ 240

