

POWER AMPLIFIER APPLICATION.
POWER SWITCHING APPLICATION.

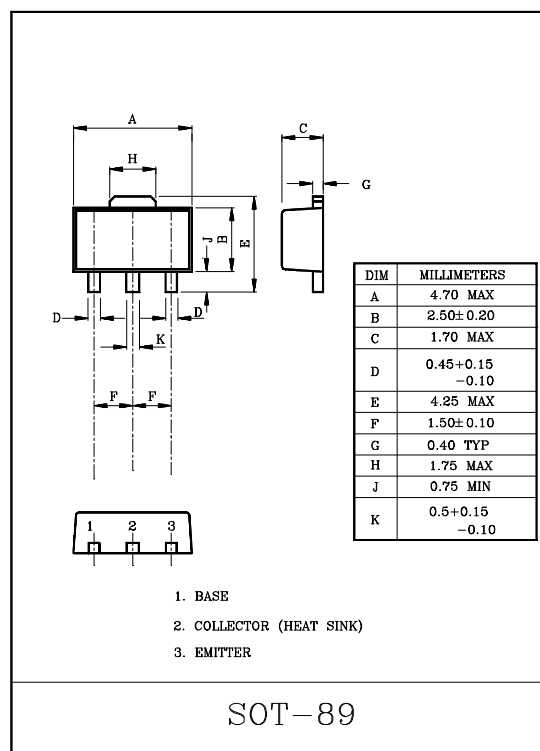
FEATURES

- Low Saturation Voltage.
: $V_{CE(sat)}=0.5V(\text{Max.})$ ($I_C=1A$)
- High Speed Switching Time: $t_{stg}=1.0\mu S(\text{Typ.})$
- $P_C=1\sim 2W$ (Mounted on Ceramic Substrate)
- Small Flat Package.
- Complementary to KTA1666.

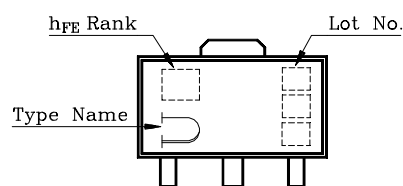
MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	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
Emitter Current	I_B	0.4	A
Collector Power Dissipation	P_C	500	mW
	$P_C *$	1	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	$-55\sim 150$	$^\circ C$

P_C* : KTC4379 mounted on ceramic substrate ($250mm^2 \pm 0.8t$)



Marking



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	50	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note2)	$V_{CE}=2V, I_C=0.5A$ (Note 1)	70	-	240	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=1.5A$ (Note 1)	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1A, I_B=0.05A$ (Note 1)	-	-	0.5	V
Base-Emitter Satiratopm Voltage	$V_{BE(sat)}$	$I_C=1A, I_B=0.05A$ (Note 1)	-	-	1.2	V
Transition Frequency	f_T	$V_{CE}=2V, I_C=0.5A$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	30	-	pF
Switching Time	Turn on Time	$I_{B1}=-I_{B2}=0.05A$ DUTY CYCLE $\leq 1\%$	-	0.1	-	μS
	Storage Time		-	1.0	-	
	Fall Time		-	0.1	-	

Note 1 : Pulse width $\leq 300\mu S$, Duty Cycle $\leq 1\%$
2 : h_{FE} Classification O:70~140, Y:120~240

