

CAMERA STROBO FLASH APPLICATION.  
HIGH CURRENT APPLICATION.

### FEATURES

- $h_{FE}=100 \sim 320$  ( $V_{CE}=-2V$ ,  $I_C=-0.5A$ ).
- $h_{FE}=70$ (Min.) ( $V_{CE}=-2V$ ,  $I_C=-3A$ ).
- Low Collector Saturation Voltage.  
:  $V_{CE(sat)}=-0.5V$ (Max.) ( $I_C=-3A$ ,  $I_B=-75mA$ ).
- High Power Dissipation.  
:  $P_C=1W$ ( $T_c=25^\circ C$ ),  $P_C=0.5W$ ( $T_a=25^\circ C$ ).

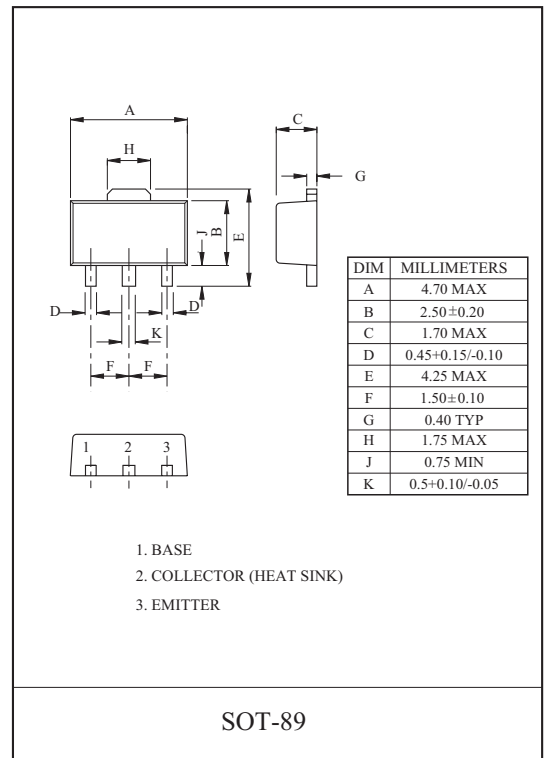
### MAXIMUM RATING ( $T_a=25^\circ C$ )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	-35	V
Collector-Emitter Voltage		$V_{CEO}$	-20	V
Emitter-Base Voltage		$V_{EBO}$	-8	V
Collector Current	DC	$I_C$	-3	A
	Pulse (Note1)	$I_{CP}$	-5	A
Base Current		$I_B$	-0.5	A
Collector Power Dissipation	$T_a=25^\circ C$	$P_C$	0.5	W
	$T_c=25^\circ C$ *		1	
Junction Temperature		$T_j$	150	$^\circ C$
Storage Temperature Range		$T_{stg}$	-55 ~ 150	$^\circ C$

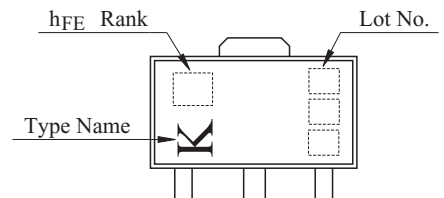
Note1 : Pulse Test : Pulse width=10ms(Max.)

Duty cycle=30%(Max.)

\* $P_C$  : KTA1001 mounted on ceramic substrate(250mm<sup>2</sup>x0.8t)



### Marking



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-35V$ , $I_E=0$	-	-	-100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-8V$ , $I_C=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10mA$ , $I_B=0$	-20	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1mA$ , $I_C=0$	-8	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note2)	$V_{CE}=-2V$ , $I_C=-0.5A$	100	-	320	
	$h_{FE(2)}$	$V_{CE}=-2V$ , $I_C=-3A$	70	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-3A$ , $I_B=-75mA$	-	-	-0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-2V$ , $I_C=-3A$	-	-	-1.5	V
Transition Frequency	$f_T$	$V_{CE}=-2V$ , $I_C=-0.5A$	-	170	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V$ , $I_E=0$ , $f=1MHz$	-	62	-	pF

Note2 :  $h_{FE(1)}$  Classification 0:100~200, Y:160~320

# KTA1001

