

STROBO FLASH APPLICATION.
HIGH CURRENT APPLICATION.

FEATURES

- $h_{FE}=100 \sim 320$ ($V_{CE}=-2V$, $I_C=-0.5A$).
- $h_{FE}=70(\text{Min.})$ ($V_{CE}=-2V$, $I_C=-4A$).
- Low Collector Saturation Voltage.
: $V_{CE(\text{sat})}=-0.5V$ ($I_C=-3A$, $I_B=-75mA$).

MAXIMUM RATING ($T_a=25^\circ\text{C}$)

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	I_C	-5	A
Base Current	I_B	-0.5	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



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

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	$V_{(BR)CEO}$	$V_{EB}=-10mA$, $I_B=0$	-20	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1mA$, $I_C=0$	-8	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-2V$, $I_C=-0.5A$	100	-	320	
	$h_{FE(2)}$	$V_{CE}=-2V$, $I_C=-4A$	70	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C=-3A$, $I_B=-75mA$	-	-	-0.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-2V$, $I_C=-4A$	-	-	-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

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

KTA1243

