

HIGH CURRENT APPLICATION
CAMERA STROBO (For Electronic Flash Unit)

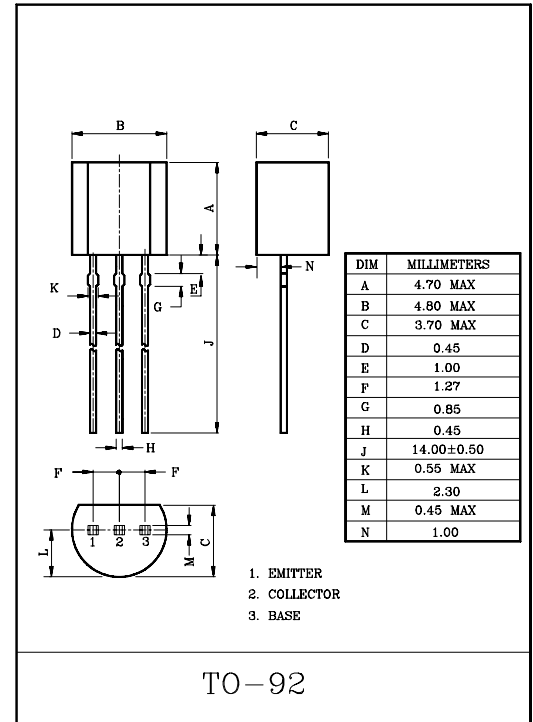
FEATURES

- Low $V_{CE(SAT)}$.
- High Performance at Low Supply Voltage.

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	40	V
Collector-Emitter Voltage		V_{CEO}	20	V
Emitter-Base Voltage		V_{EBO}	7	V
Collector Current	DC	I_C	5	A
	Pulse (Note1)	I_{CP}	8	
Collector Power Dissipation		P_C	625	mW
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-55~150	$^\circ\text{C}$

Note 1: Pulse Width $\leq 100\text{ms}$, Duty Cycle $\leq 30\%$



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$	40	-	-	V
Collector Emitter Breakdown Voltage (1)	$V_{(BR)CEO}$	$I_C=1\text{mA}$	20	-	-	V
Emitter Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu\text{A}$	7	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB}=20\text{V}, I_E=0$	-	-	100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=7\text{V}, I_C=0$	-	-	100	nA
DC Current Gain	$h_{FE(1)}$ (Note 1)	$V_{CE}=2\text{V}, I_C=0.5\text{A}$	120	-	700	
	$h_{FE(2)}$	$V_{CE}=2\text{V}, I_C=2\text{A}$	100	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3\text{A}, I_B=60\text{mA(Pulse)}$	-	-	0.4	V
Transition Frequency	f_T	$V_{CE}=6\text{V}, I_C=50\text{mA}$	20	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=20\text{V}, f=1\text{MHz}$	-	-	50	pF

Note 1 : $h_{FE(1)}$ Classification O:120~240, Y:200~400, GR:350~700

