

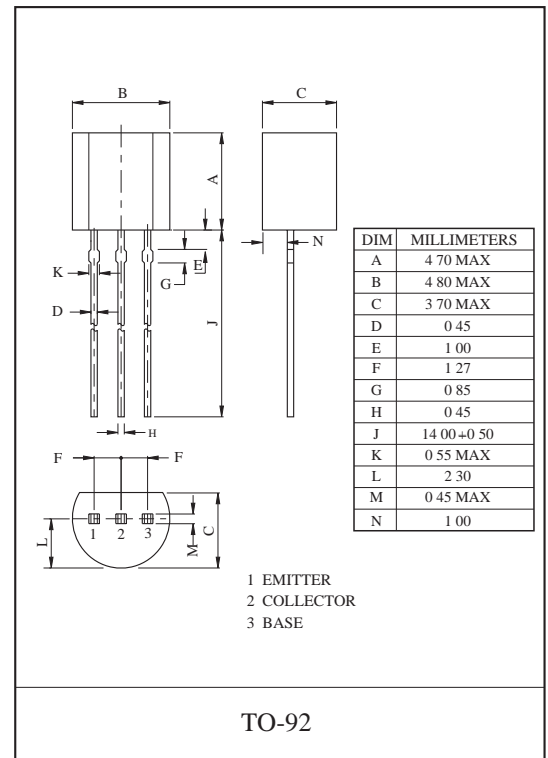
SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE AND HIGH SPEED
SWITCHING APPLICATION.

FEATURES

- Excellent Switching Times
: $t_{on}=1.1\mu S(\text{Max.})$, $t_f=0.7\mu S(\text{Max.})$, at $I_C=1.5A$
- High Collector Voltage : $V_{CBO}=700V$.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	700	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	9	V
Collector Current	DC	I_C	A
	Pulse	I_{CP}	
Collector Power Dissipation	I_B	0.75	A
Collector Power Dissipation	P_C	1.1	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	$V_{EB}=9V, I_C=0$	-	-	10	μA
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=5V, I_C=0.5A$	9	-	38	
	$h_{FE}(2)$	$V_{CE}=5V, I_C=1A$	5	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=0.5A, I_B=0.1A$	-	-	0.5	V
		$I_C=1A, I_B=0.25A$	-	-	1	
		$I_C=1.5A, I_B=0.5A$	-	-	3	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=0.5A, I_B=0.1A$	-	-	1	V
		$I_C=1A, I_B=0.25A$	-	-	1.2	
Transition Frequency	f_T	$V_{CE}=10V, I_C=0.1A$	4	-	-	MHz
Turn-On Time	t_{on}	<p style="font-size: small; margin-top: 5px;">$I_{B1}=I_{B2}=0.2A$ DUTY CYCLE $\leq 1\%$</p>	-	-	1.0	μS
Storage Time	t_{stg}		-	-	3	μS
Fall Time	t_f		-	-	0.7	μS

Note : h_{FE} Classification 9~15, 13~21, 20~25, 26~38

