

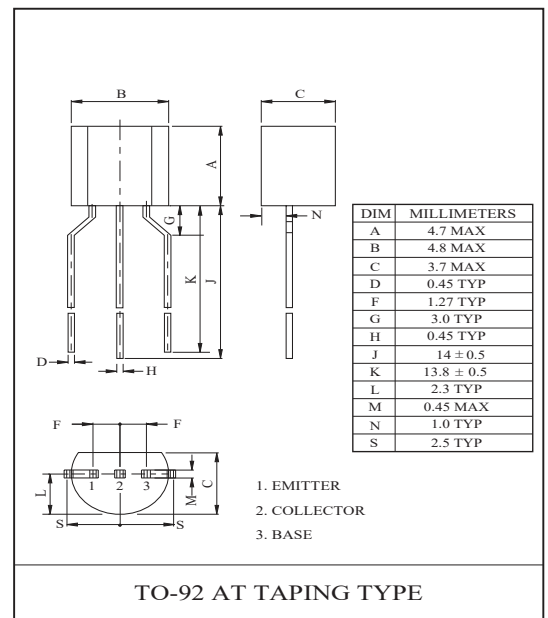
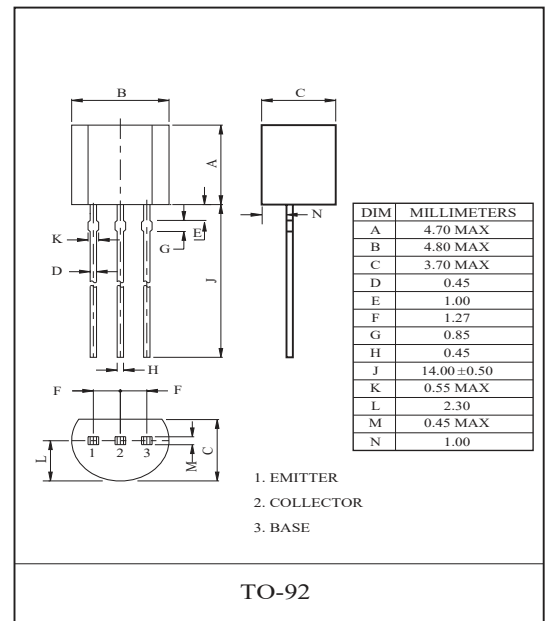
SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE AND HIGH SPEED
SWITCHING APPLICATION.

FEATURES

- Excellent Switching Times
: $t_{on}=1.1\mu\text{S}(\text{Max.})$, $t_f=0.7\mu\text{S}(\text{Max.})$, at $I_C=1\text{A}$
- High Collector Voltage : $V_{CBO}=700\text{V}$.

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	1.5
	Pulse	I_{CP}	3
Base Current	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

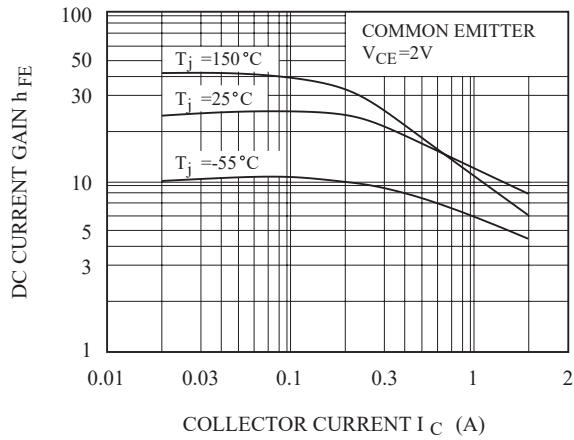


ELECTRICAL CHARACTERISTICS (Ta=25°C)

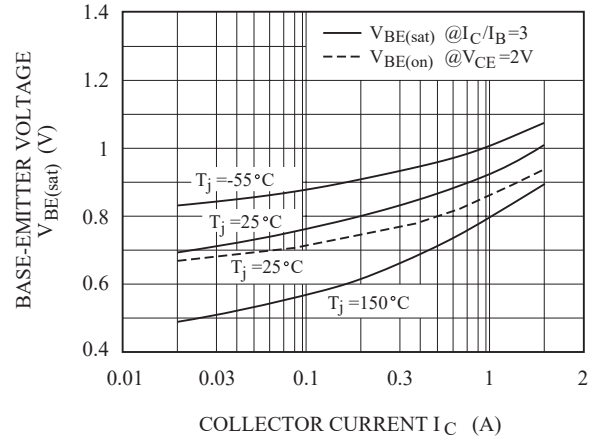
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	$V_{EB}=9\text{V}$, $I_C=0$	-	-	10	μA
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=2\text{V}$, $I_C=0.5\text{A}$	9	-	38	
	$h_{FE}(2)$	$V_{CE}=2\text{V}$, $I_C=1\text{A}$	5	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=0.5\text{A}$, $I_B=0.1\text{A}$	-	-	0.5	V
		$I_C=1\text{A}$, $I_B=0.25\text{A}$	-	-	1	
		$I_C=1.5\text{A}$, $I_B=0.5\text{A}$	-	-	3	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=0.5\text{A}$, $I_B=0.1\text{A}$	-	-	1	V
		$I_C=1\text{A}$, $I_B=0.25\text{A}$	-	-	1.2	
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $f=0.1\text{MHz}$, $I_E=0$	-	21	-	pF
Transition Frequency	f_T	$V_{CE}=10\text{V}$, $I_C=0.1\text{A}$	4	-	-	MHz
Turn-On Time	t_{on}		-	-	1.1	μS
Storage Time	t_{stg}		-	-	4.0	μS
Fall Time	t_f		-	-	0.7	μS

Note : h_{FE} Classification R:9~15, O:13~21, Y:20~38

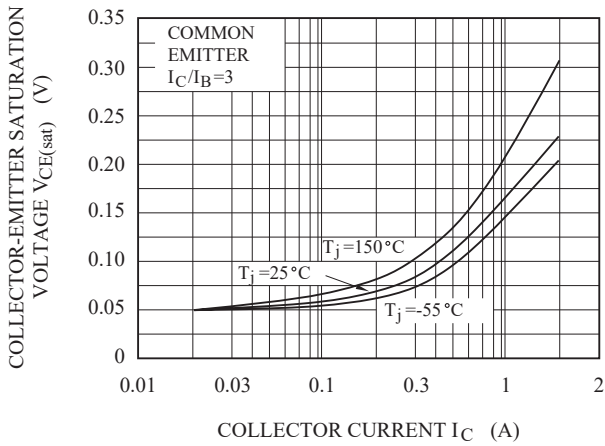
DC CURRENT GAIN



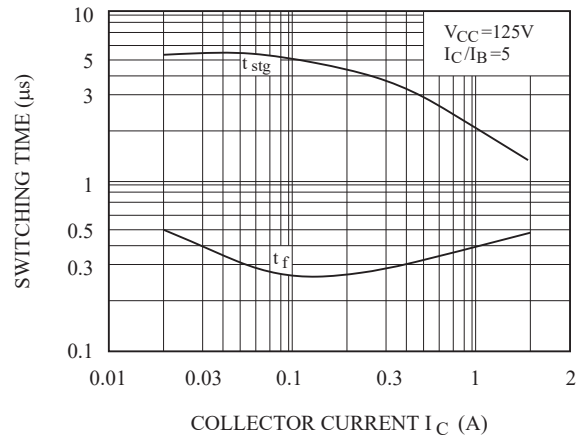
$V_{BE(sat)} - I_C$



$V_{CE(sat)} - I_C$



SWITCHING CHARACTERISTIC



$P_C - T_a$

