

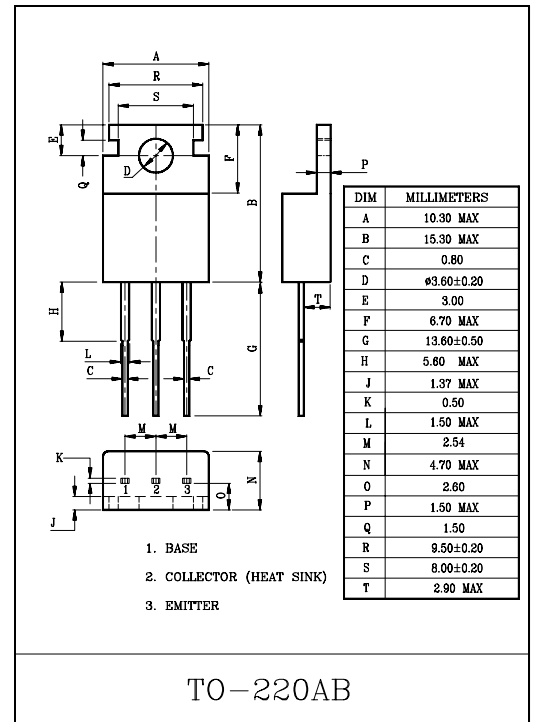
SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE SWITCHING APPLICATION.

FEATURES

- Excellent Switching Times.
: $t_{on}=0.5\mu S(\text{Max.})$, $t_f=0.3\mu S(\text{Max.})$, at $I_C=2A$.
- High Collector Voltage : $V_{CEO}=500V$.

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	800	V
Collector-Emitter Voltage	V_{CEO}	500	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	I_C	3
	Pulse	I_{CP}	6
Base Current	I_B	1	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	40	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



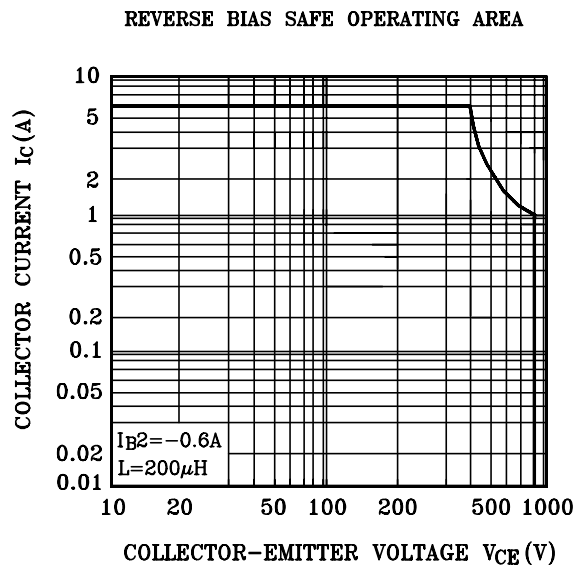
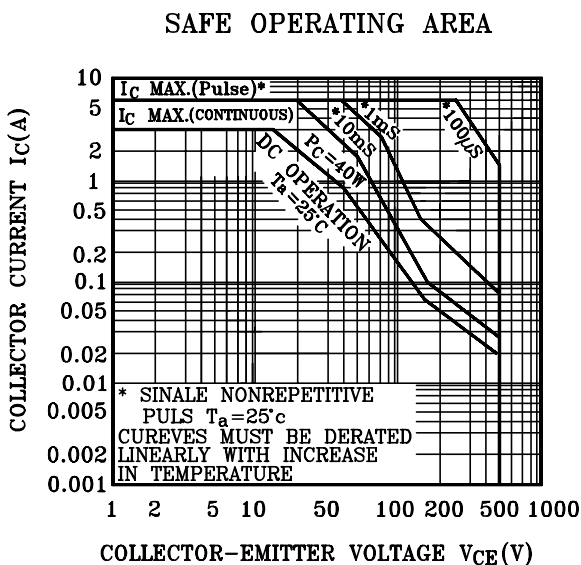
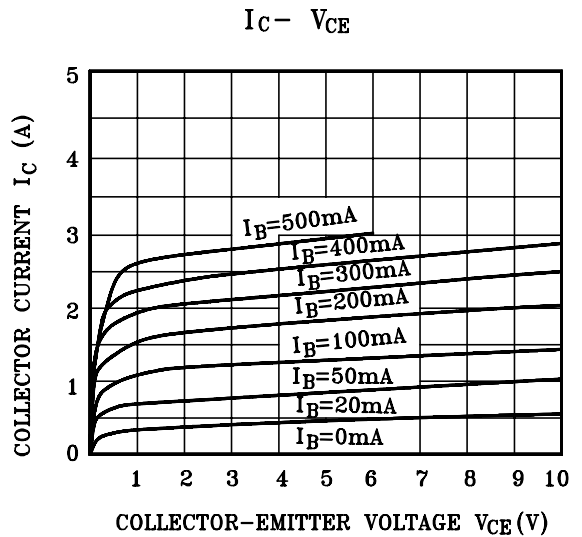
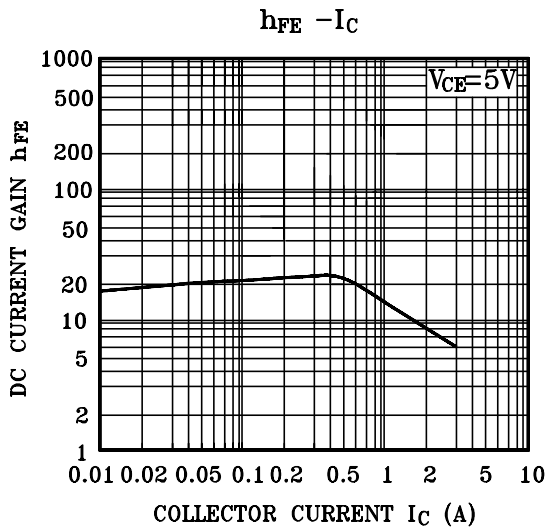
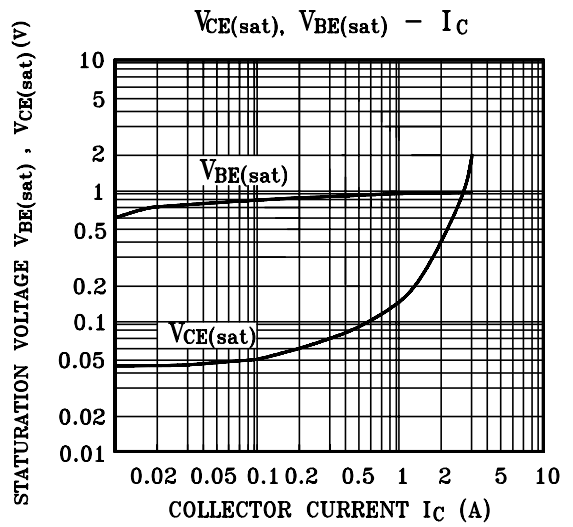
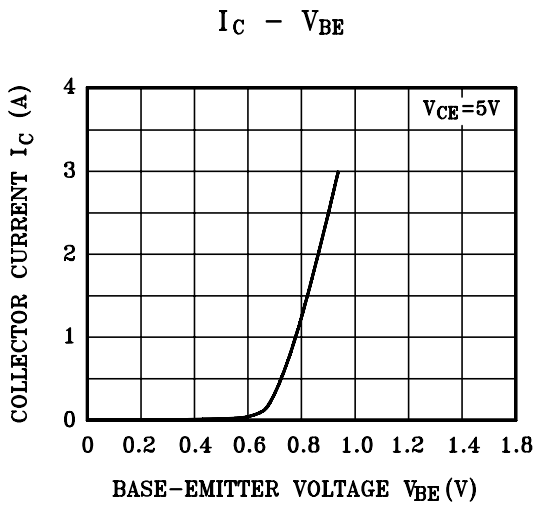
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Collector Cut-off Current	I_{CBO}	$V_{CB}=500V$, $I_E=0$	-	-	10	μA		
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	10	μA		
Collector-Emitter Sustaining Voltage	$V_{CEX(SUS)}$	$I_C=1.5A$, $I_{B1}=-I_{B2}=0.6A$ $L=2mH$, Clamped	500	-	-	V		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1.5A$, $I_B=0.3A$	-	-	1	V		
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1.5A$, $I_B=0.3A$	-	-	1.5	V		
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=5V$, $I_C=0.3A$	15	-	50			
	$h_{FE}(2)$	$V_{CE}=5V$, $I_C=1.5A$	8	-	-			
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $f=1MHz$	-	50	-	pF		
Transition Frequency	f_T	$V_{CE}=10V$, $I_C=0.3A$	-	18	-	MHz		
Switching Time	Turn On Time	t_{on}				-	-	0.5
	Storage Time	t_{stg}				-	-	3
	Fall Time	t_f				-	-	0.3

$I_{B1}=0.4A$, $I_{B2}=-0.8A$
DUTY CYCLE $\leq 1\%$

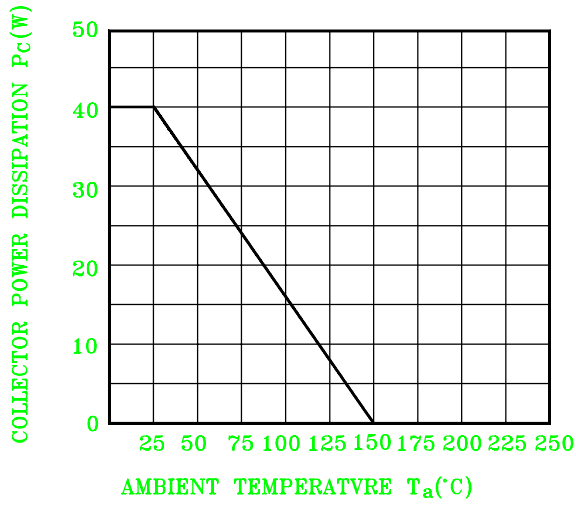
Note : $h_{FE}(1)$ Classification R:15~30, O:20~40, Y:30~50

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$P_C - T_a$



SWITCHING CHARACTERISTICS

