

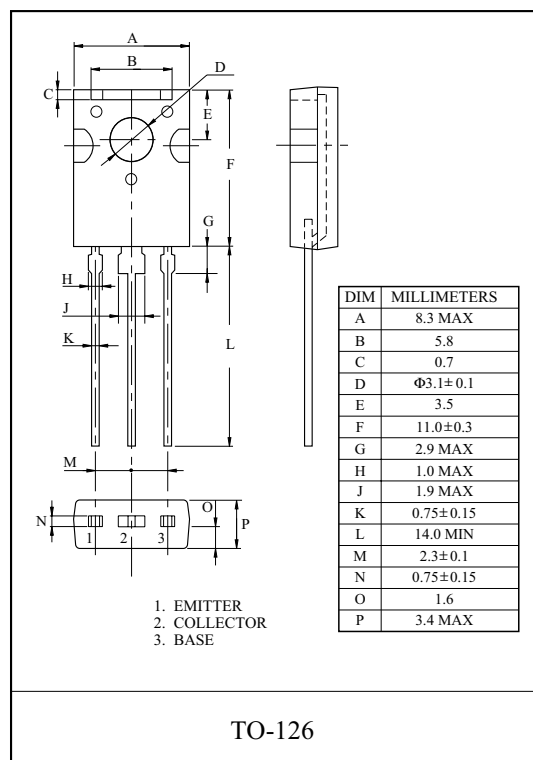
SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE AND HIGH SPEED
SWITCHING APPLICATION.

FEATURES

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

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

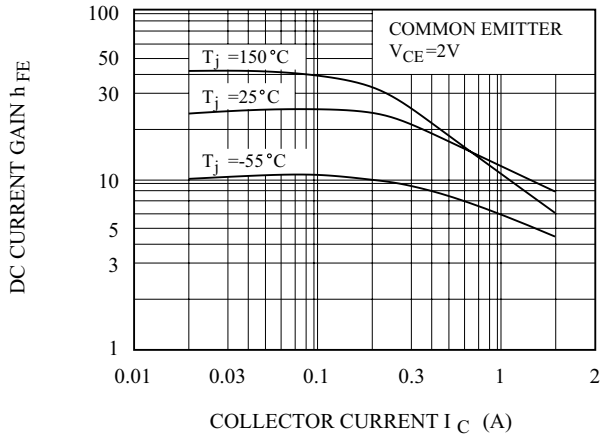
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	700	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	9	V
Collector Current	DC	I_C	A
	Pulse	I_{CP}	
Base Current	I_B	0.75	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	20	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



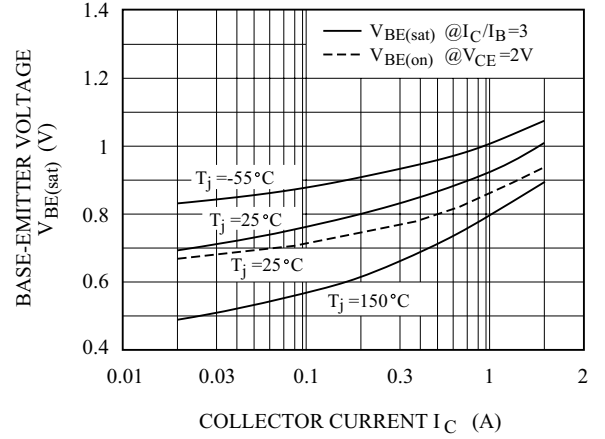
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	$V_{EB}=9V$, $I_C=0$	-	-	10	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2V$, $I_C=0.5A$	8	-	40	
	$h_{FE(2)}$	$V_{CE}=2V$, $I_C=1A$	5	-	25	
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	
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $f=0.1MHz$, $I_E=0$	-	21	-	pF
Transition Frequency	f_T	$V_{CE}=10V$, $I_C=0.1A$	4	-	-	MHz
Turn-On Time	t_{on}	$I_{B1}=I_{B2}=0.2A$ DUTY CYCLE $\leq 2\%$	-	-	1.1	μS
Storage Time	t_{stg}		-	-	4.0	μS
Fall Time	t_f		-	-	0.7	μS

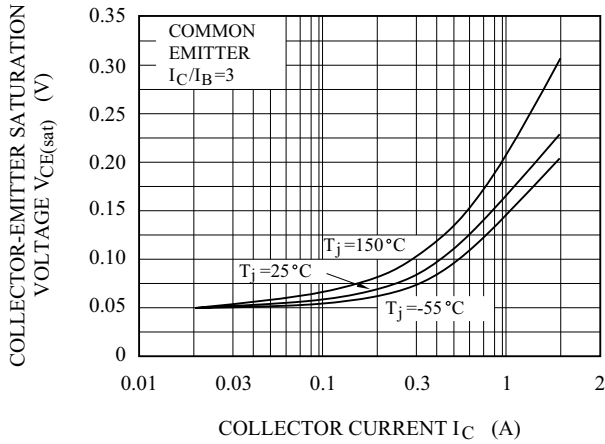
DC CURRENT GAIN



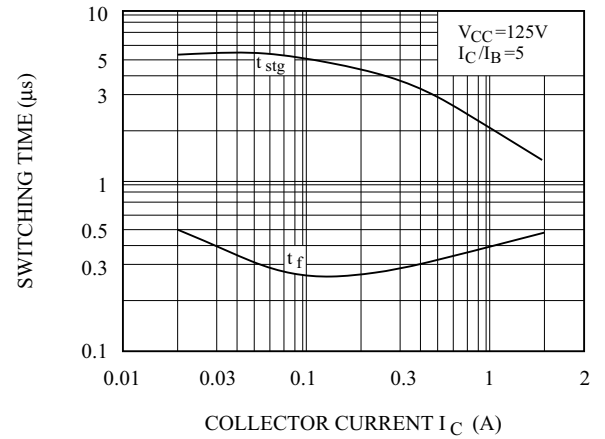
$V_{BE(sat)} - I_C$



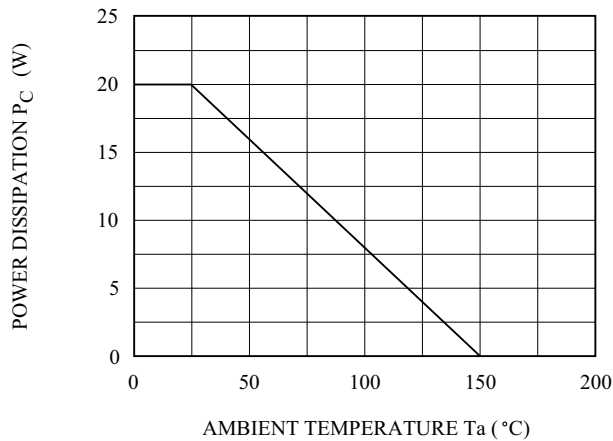
$V_{CE(sat)} - I_C$



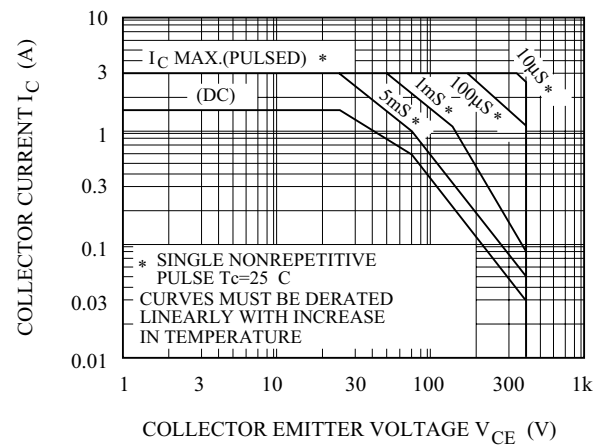
SWITCHING CHARACTERISTIC



$P_C - T_a$



SAFE OPERATING AREA



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