

SWITCHING REGULATOR APPLICATION.
HIGH VOLTAGE SWITCHING APPLICATION.
HIGH SPEED DC-DC CONVERTER APPLICATION.
FLUORESCENT LIGHT BALLASTOR APPLICATION.

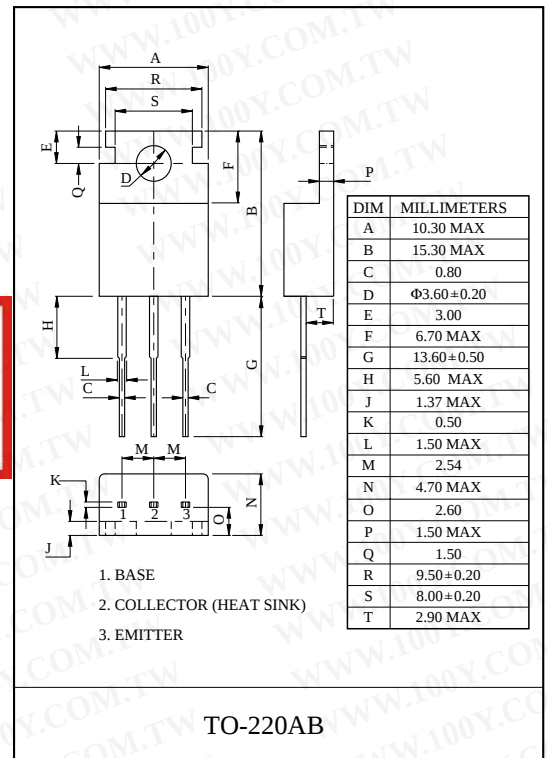
FEATURES

- Excellent Switching Times
: $t_{on}=0.8/\mu S(\text{Max.})$, $t_f=0.9/\mu S(\text{Max.})$, at $I_C=2A$
- High Collector Voltage : $V_{CBO}=700V$.

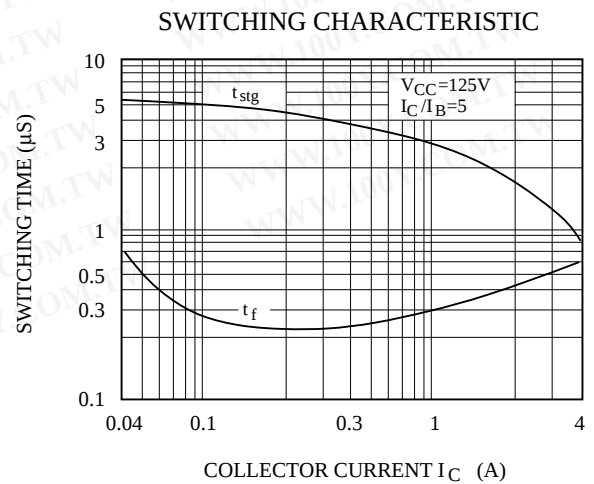
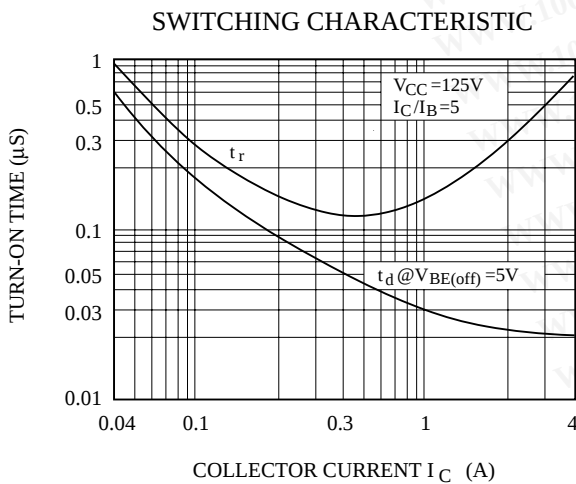
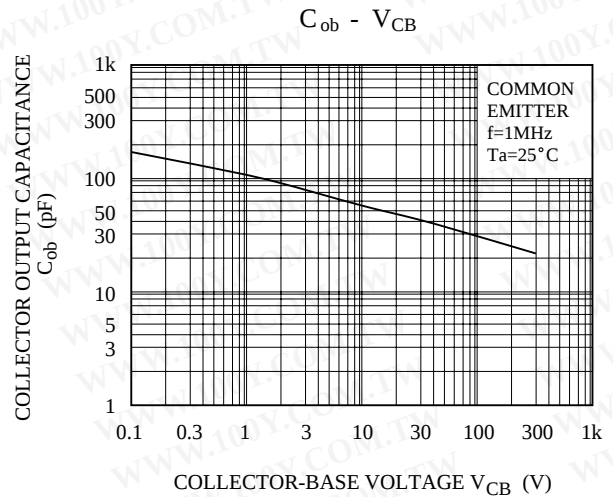
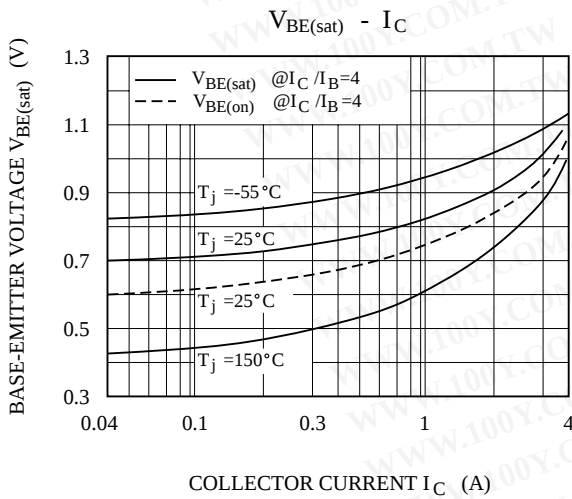
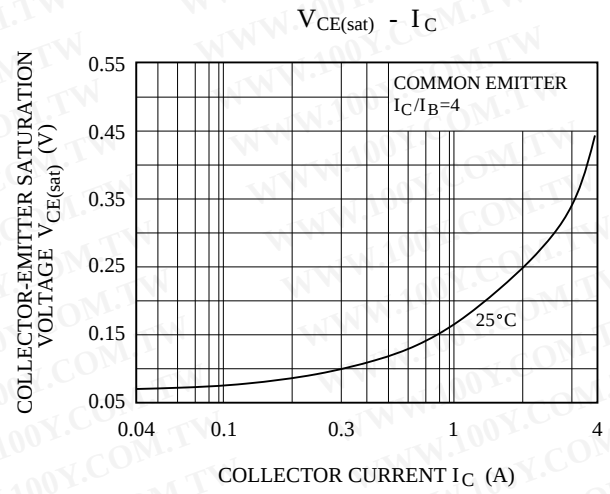
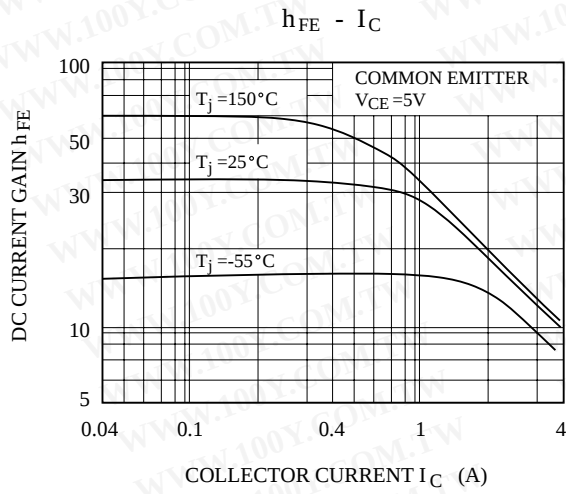
勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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

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	4	A
	Pulse I_{CP}	8	
Base Current	I_B	2	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	75	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

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

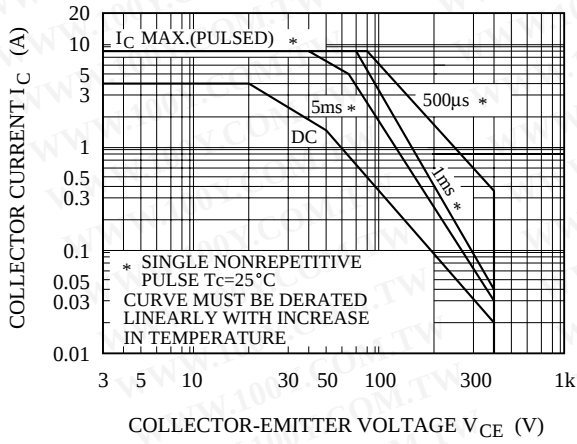
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Emitter Cut-off Current	I_{EBO}	$V_{EB}=9V$, $I_C=0$	-	-	1	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5V$, $I_C=1A$	19	-	36	
	$h_{FE(2)}$	$V_{CE}=5V$, $I_C=2A$	10	-	30	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1A$, $I_B=0.2A$	-	-	0.5	V
		$I_C=2A$, $I_B=0.5A$	-	-	0.6	
		$I_C=4A$, $I_B=1A$	-	-	1	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1A$, $I_B=0.2A$	-	-	1.2	V
		$I_C=2A$, $I_B=0.5A$	-	-	1.6	
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $f=0.1\text{MHz}$, $I_E=0$	-	65	-	pF
Transition Frequency	f_T	$V_{CE}=10V$, $I_C=0.5A$	4	-	-	MHz
Turn-On Time	t_{on}	$I_{B1}=I_{B2}=0.4A$ DUTY CYCLE $\leq 2\%$	-	-	0.8	μs
Storage Time	t_{stg}		-	-	4	μs
Fall Time	t_f		-	-	0.9	μs



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SAFE OPERATING AREA



$P_C - T_a$

