

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07596 07-33-13

SILICON NPN TRIPLE DIFFUSED TYPE

2SC2790

INDUSTRIAL APPLICATIONS

Unit in mm

SWITCHING REGULATOR AND HIGH VOLTAGE

SWITCHING APPLICATIONS.

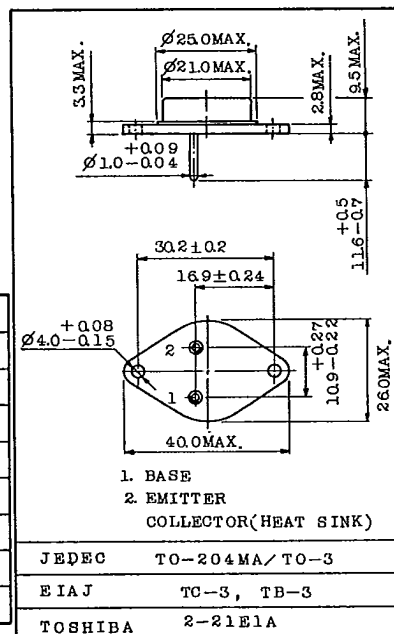
HIGH SPEED DC-DC CONVERTER APPLICATION.

FEATURES:

. Excellent Switching Times

: $t_r=1.0\mu s$ Max. , $t_f=1.0\mu s$ Max. at $I_C=0.5A$. High Collector Breakdown Voltage : $V_{CEO}=800V$ MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector - Base Voltage	V_{CBO}	850	V
Collector - Emitter Voltage	V_{CEO}	800	V
Emitter - Base Voltage	V_{EBO}	7	V
Collector Current	I_C	2	A
Base Current	I_B	1	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	80	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

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

Weight : 16g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=800V, I_E=0$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	1	mA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	850	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	800	-	-	V
DC Current Gain	h_{FE} (Note)	$V_{CE}=5V, I_C=0.5A$	17	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$ (Note)	$I_C=0.5A, I_B=0.05A$	-	-	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$ (Note)	$I_C=0.5A, I_B=0.05A$	-	-	1.5	V
Switching Time	Rise Time	t_r	-	-	1.0	μs
	Storage Time	t_{stg}	-	-	4.0	
	Fall Time	t_f	-	-	1.0	

Note : Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$

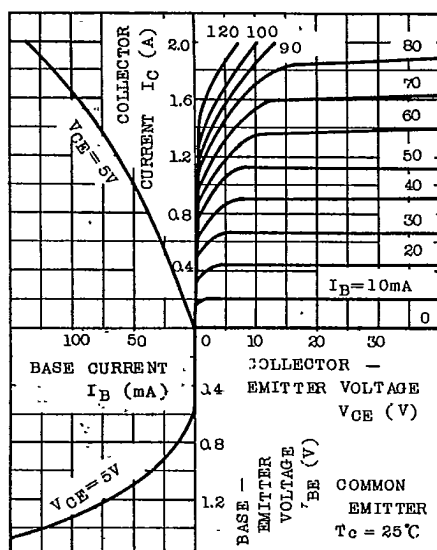
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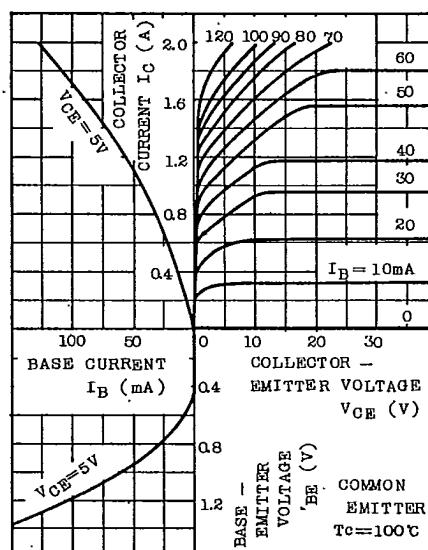
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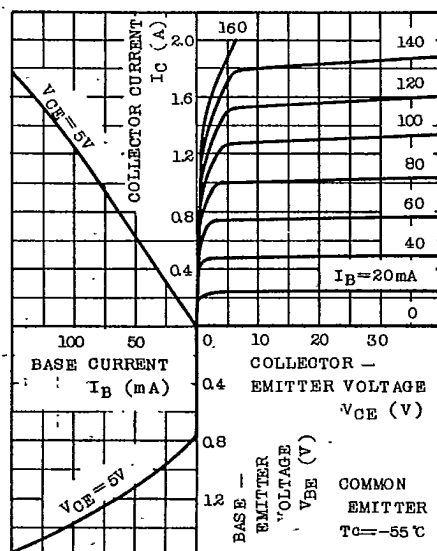
STATIC CHARACTERISTICS



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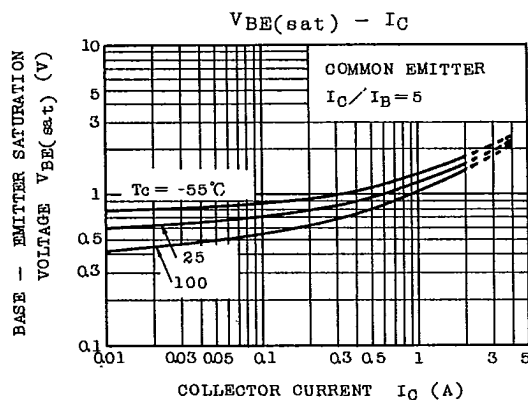
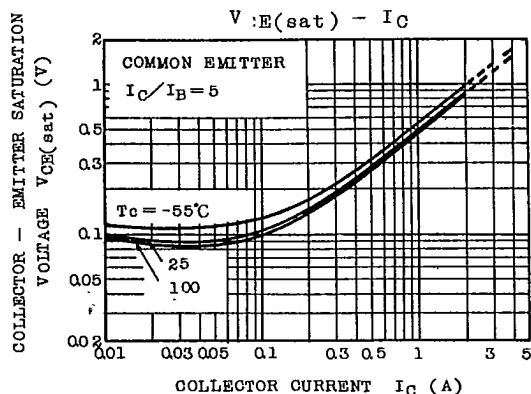
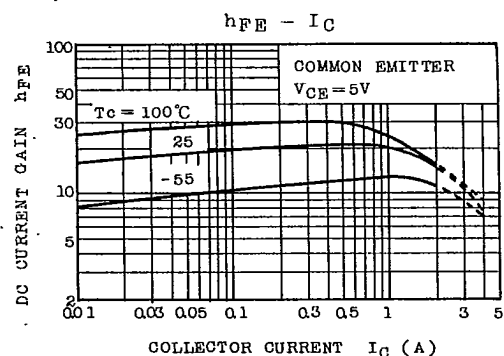
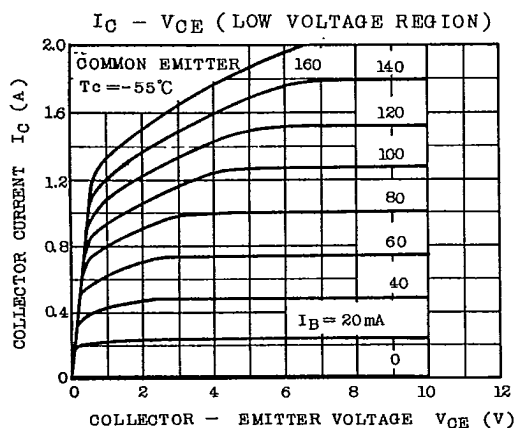
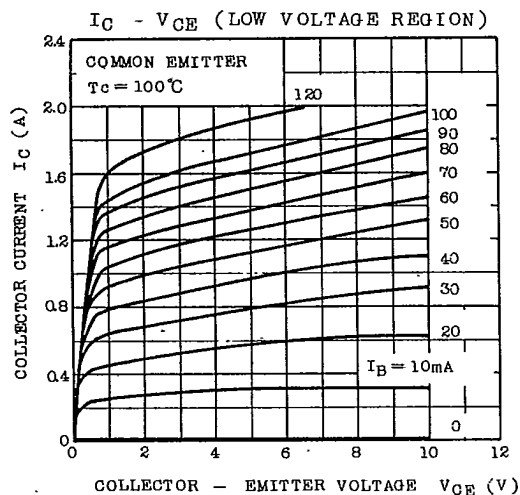
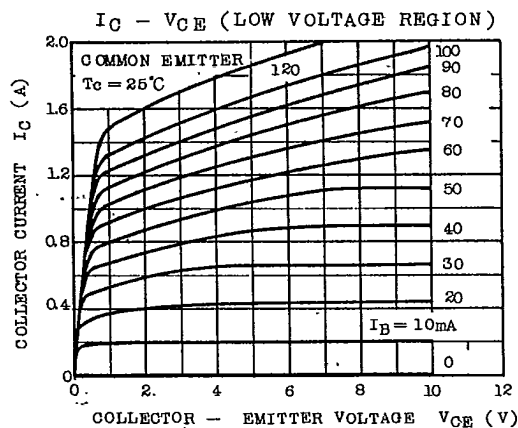
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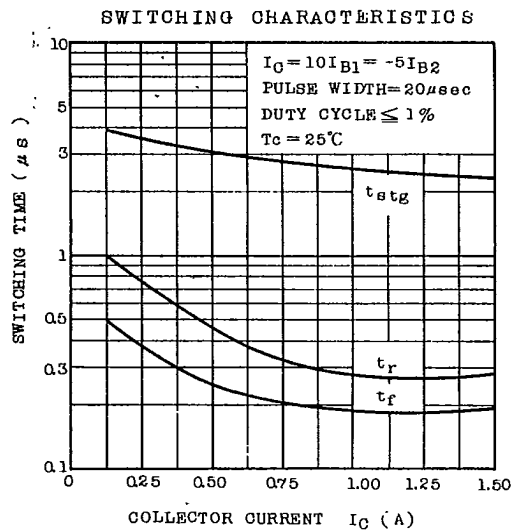
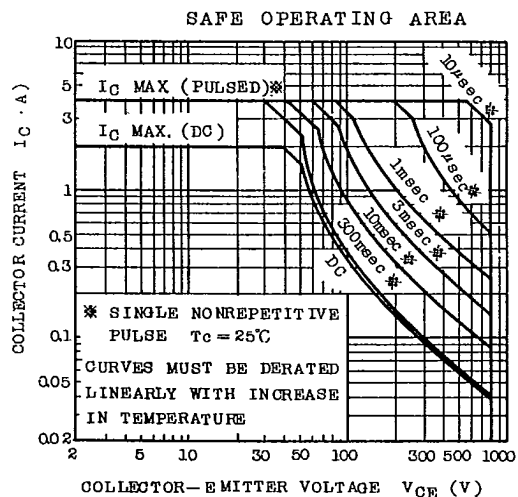
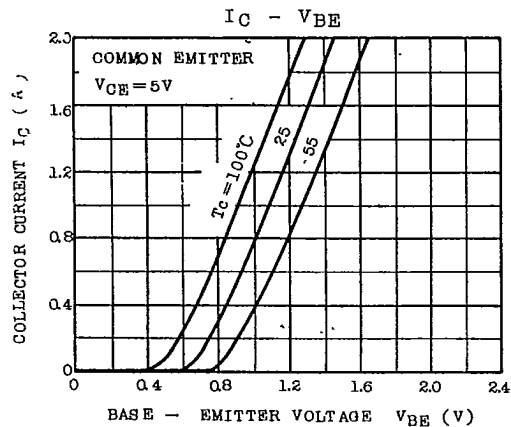
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