

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07663 DT-33-11

2SC3257

SILICON NPN TRIPLE DIFFUSED TYPE

SWITCHING REGULATOR AND HIGH VOLTAGE SWITCHING APPLICATIONS.

HIGH SPEED DC-DC CONVERTER APPLICATION.

FEATURES:

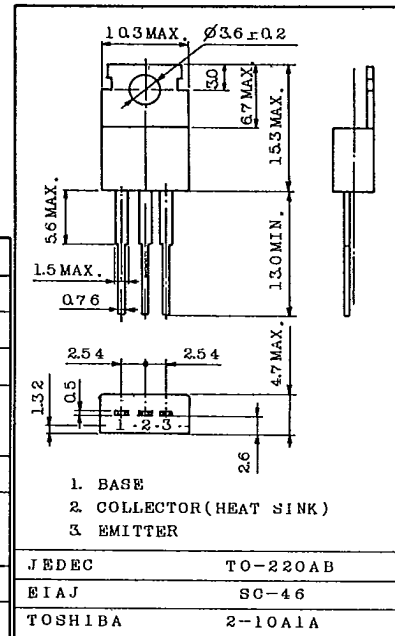
- Excellent Switching Times
: $t_r=1.0\mu s(\text{Max.})$, $t_f=1.0\mu s(\text{Max.})$ at $I_C=6A$
- High Collector Breakdown Voltage : $V_{CE0}=200V$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	250	V
Collector-Emitter Voltage	V_{CEO}	200	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	I_C	10
	Pulse	I_{CP}	15
Base Current	I_B	2	A
Collector Power Dissipation	$T_a=25^\circ C$	P_C	1.5
	$T_c=25^\circ C$		40
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

INDUSTRIAL APPLICATIONS

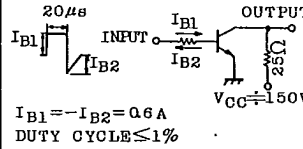
Unit in mm

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

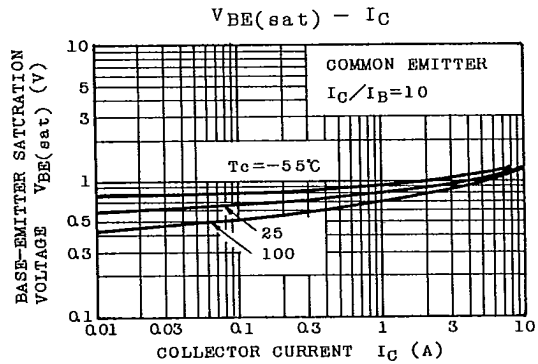
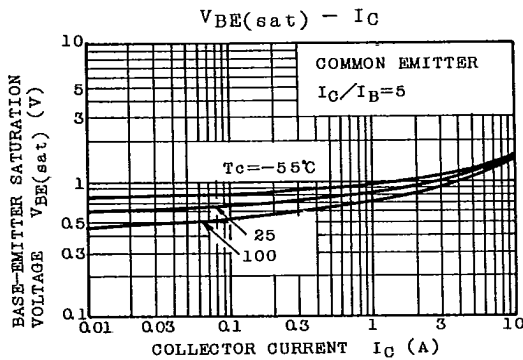
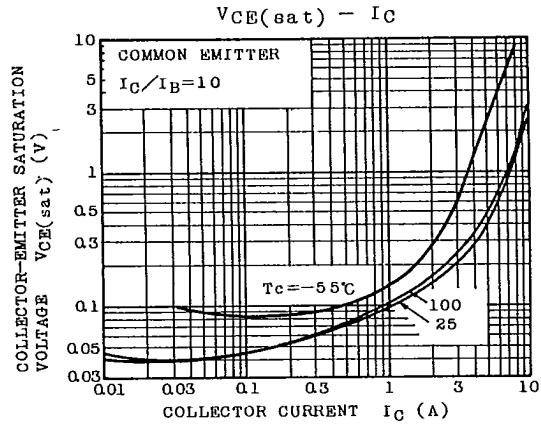
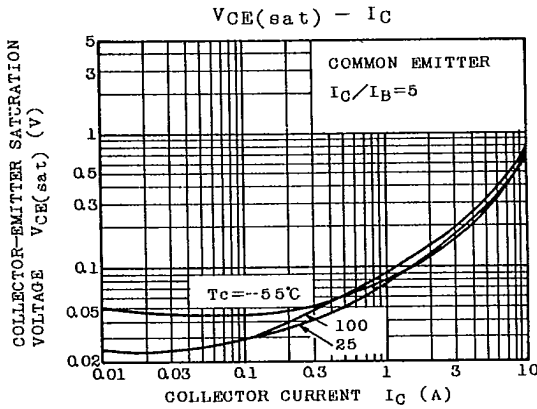
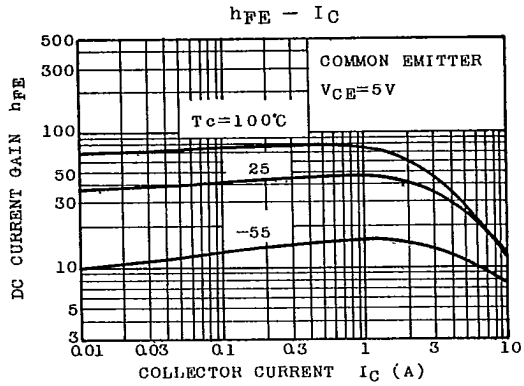
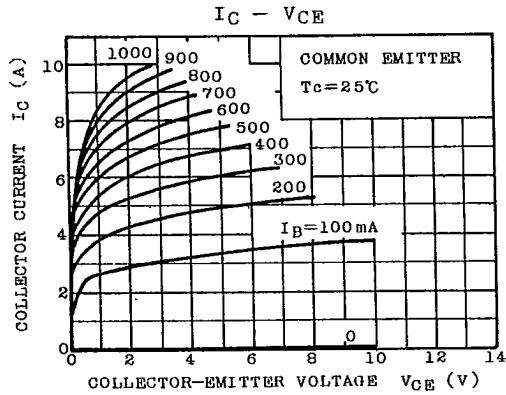
Mounting Kit No. AC75

Weight : 1.9g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=200V, I_E=0$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	1	mA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	250	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	200	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=10mA$	15	-	-	
		$V_{CE}=5V, I_C=5A$	20	-	80	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	1.5	V
Switching Time	Rise Time	t_r	-	-	1.0	μs
	Storage Time	t_{stg}	-	-	2.5	
	Fall Time	t_f	-	-	1.0	

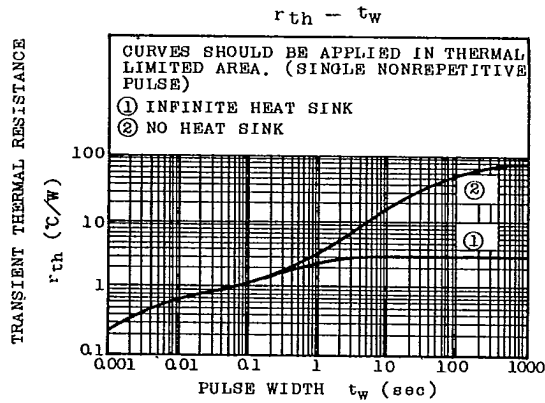
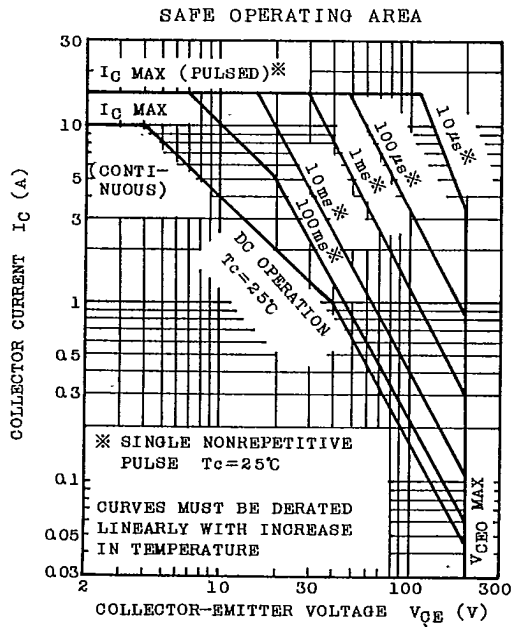
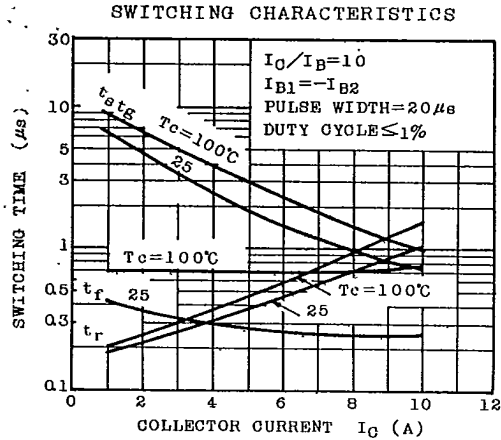
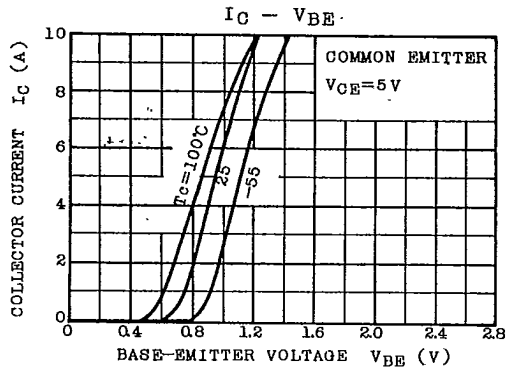


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