

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07663 0 T-33-11

**2SC3257**

SILICON NPN TRIPLE DIFFUSED TYPE

SWITCHING REGULATOR AND HIGH VOLTAGE SWITCHING APPLICATIONS.

HIGH SPEED DC-DC CONVERTER APPLICATION.

## FEATURES:

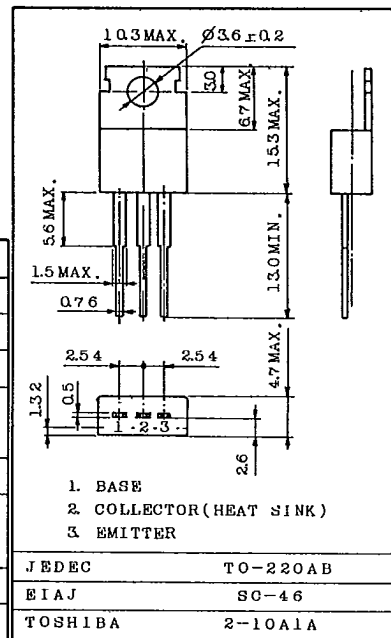
- Excellent Switching Times  
:  $t_r=1.0\mu s$ (Max.),  $t_f=1.0\mu s$ (Max.) at  $I_C=6A$
- High Collector Breakdown Voltage :  $V_{CEO}=200V$

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

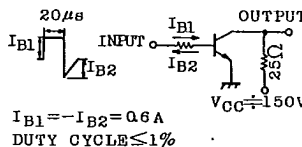
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	250	V
Collector-Emitter Voltage	$V_{CEO}$	200	V
Emitter-Base Voltage	$V_{EBO}$	7	V
Collector Current	DC	$I_C$	A
	Pulse	$I_{CP}$	
Base Current	$I_B$	2	A
Collector Power Dissipation	$T_a=25^\circ C$	$P_C$	W
	$T_c=25^\circ C$	40	
Junction 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	$\mu A$
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	$\mu s$
	Storage Time	$t_{stg}$	-	-	2.5	
	Fall Time	$t_f$	-	-	1.0	



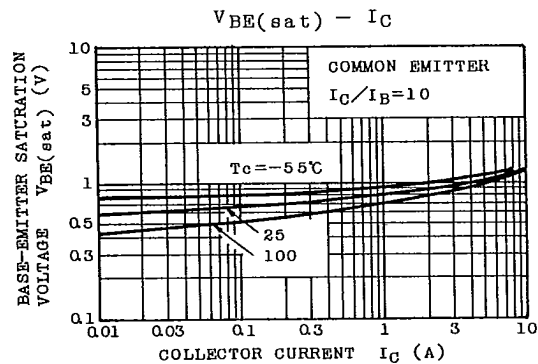
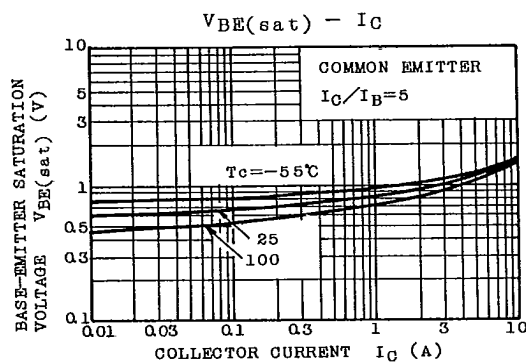
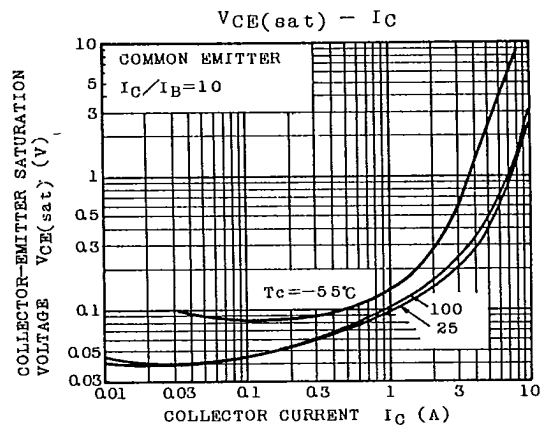
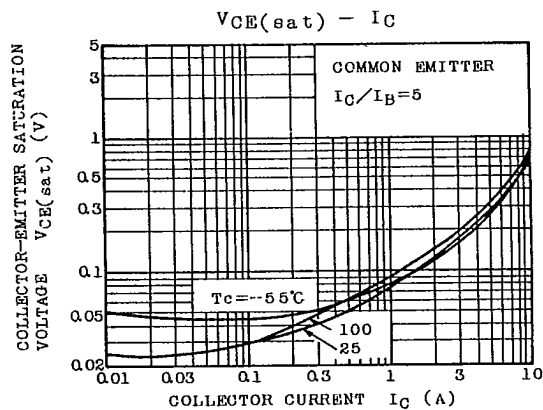
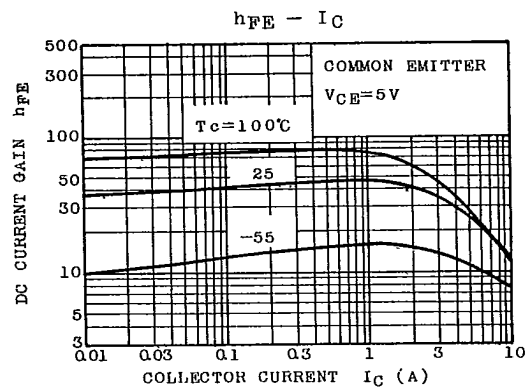
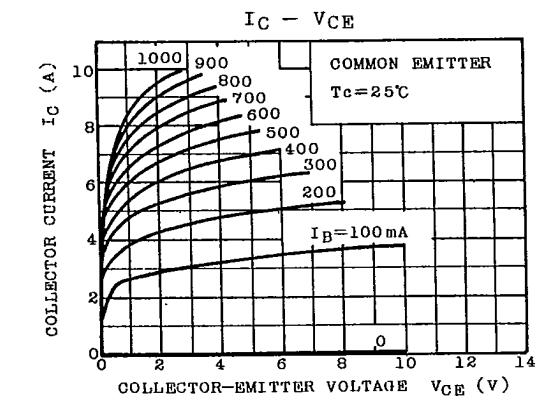
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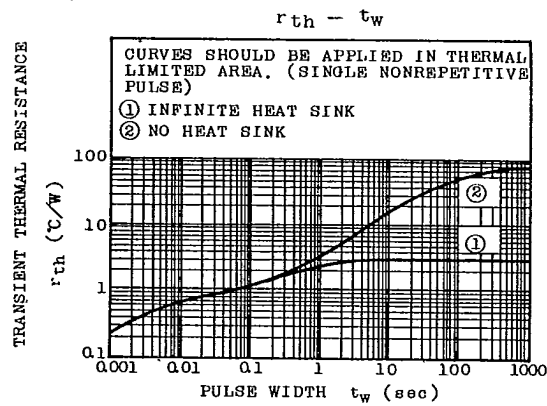
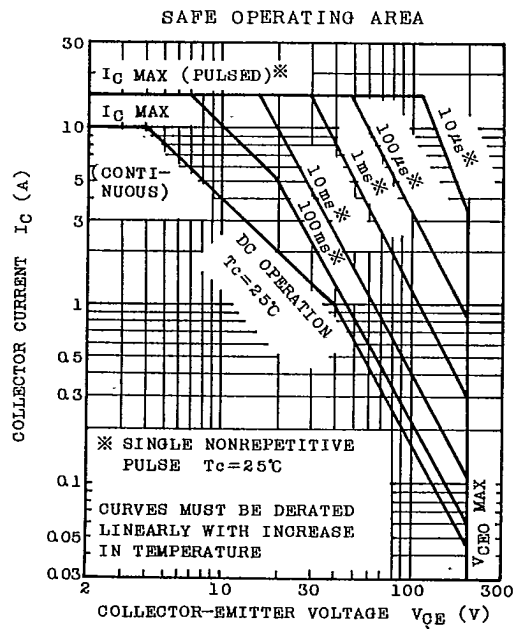
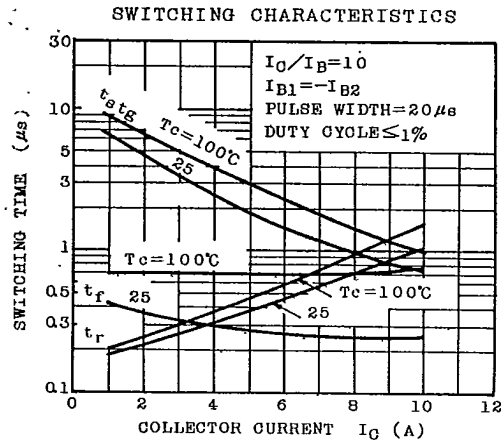
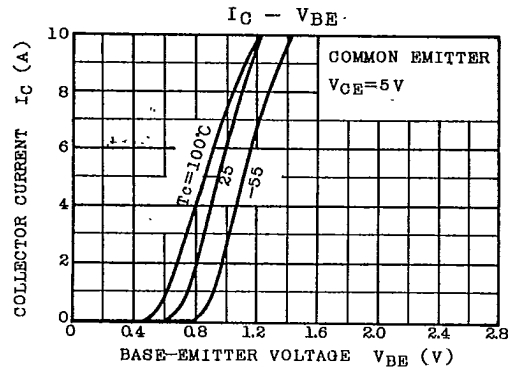


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