

2SC1617

SILICON NPN TRIPLE DIFFUSED TYPE

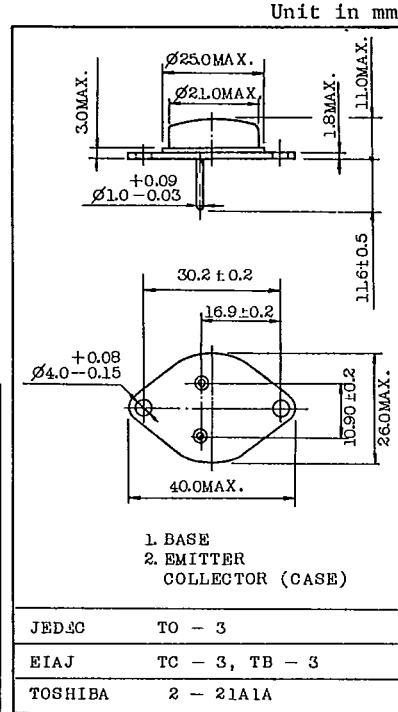
BLACK AND WHITE TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES;

- High Voltage : $V_{CBO}=300V$
- Wide Safe Operating Area.

MAXIMUM RATINGS (Ta=25°C)

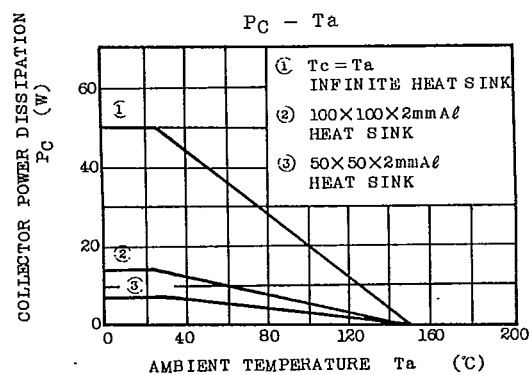
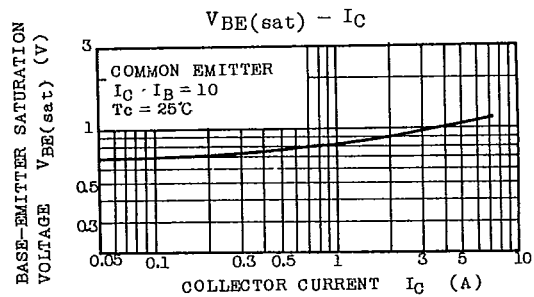
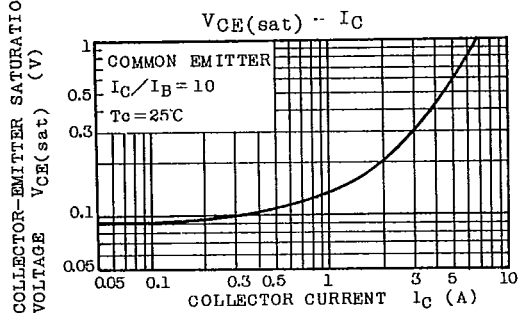
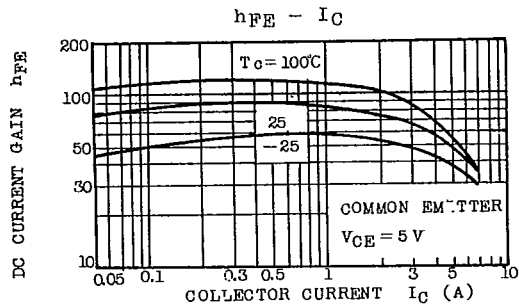
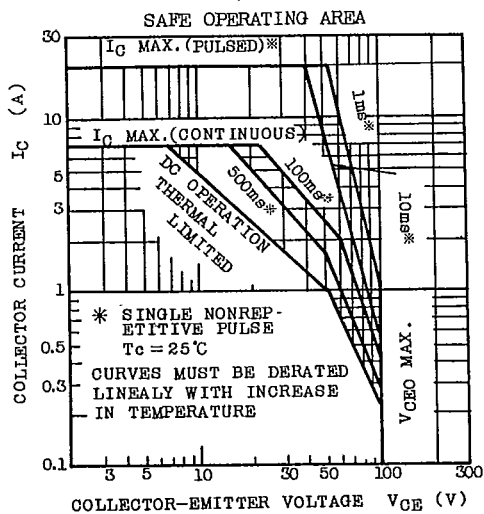
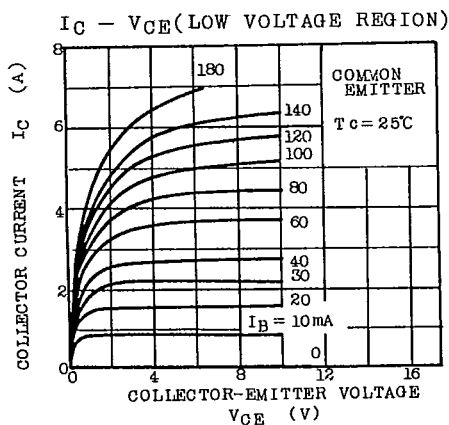
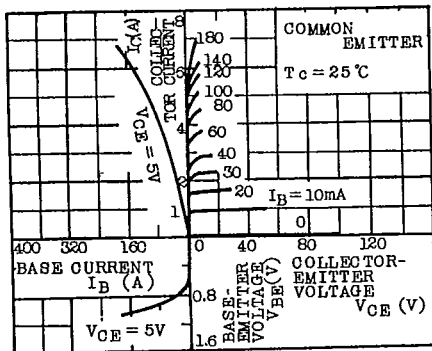
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	7	A
Emitter Current	I_E	-7	A
Collector Power Dissipation	P_C	50	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=250V, I_E=0$	-	-	1.0	mA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	1.0	mA
DC Current Gain		$h_{FE}(1)$	$V_{CE}=5V, I_C=1A$	30	-	150	
		$h_{FE}(2)$	$V_{CE}=5V, I_C=7A$	15	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	1.2	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=5A, I_B=0.5A$	-	-	1.5	
Transition Frequency		f_T	$V_{CE}=5V, I_C=0.5A$	-	10	-	MHz

STATIC CHARACTERISTICS



TOSHIBA CORPORATION