

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

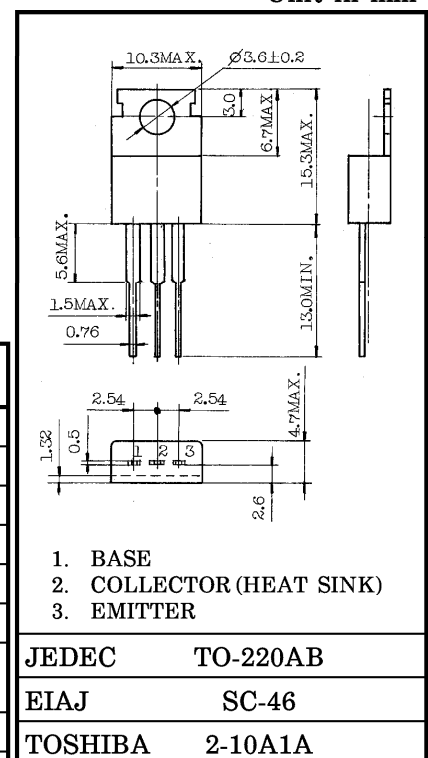
**2 S B 5 9 5**

## POWER AMPLIFIER APPLICATIONS.

- High Breakdown Voltage :  $V_{CEO} = -100V$
- Low Collector-Emitter Saturation Voltage :  $V_{CE(sat)} = -2.0V$  (Max.)
- Complementary to 2SD525.
- Recommended for 30W High-Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (T<sub>a</sub> = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	−100	V
Collector-Emitter Voltage	$V_{CEO}$	−100	V
Emitter-Base Voltage	$V_{EBO}$	−5	V
Collector Current	$I_C$	−5	A
Emitter Current	$I_E$	−5	A
Base Current	$I_B$	−4	A
Collector Power Dissipation ( $T_c=25^{\circ}\text{C}$ )	$P_C$	40	W
Junction Temperature	$T_j$	150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	−55~150	$^{\circ}\text{C}$

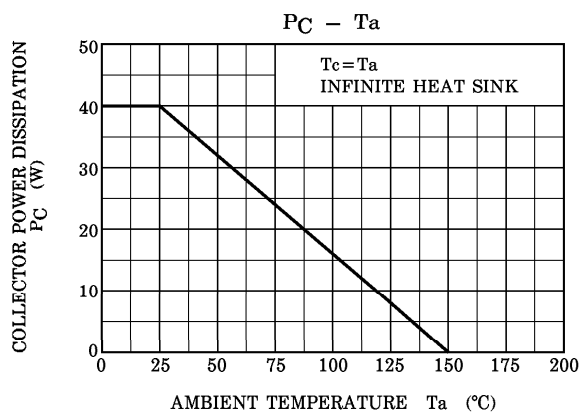
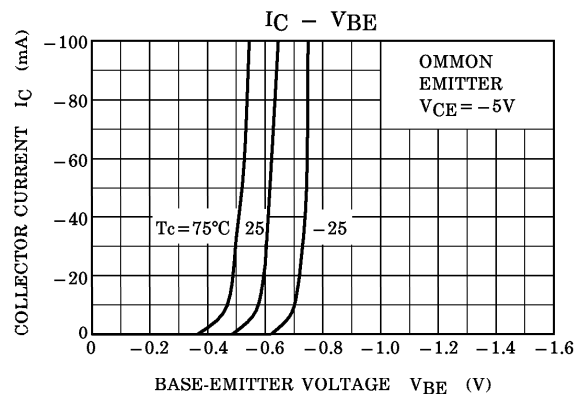
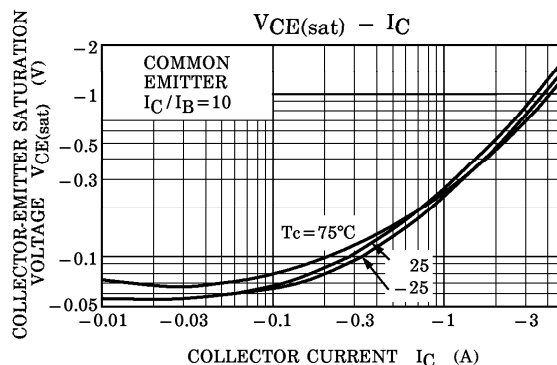
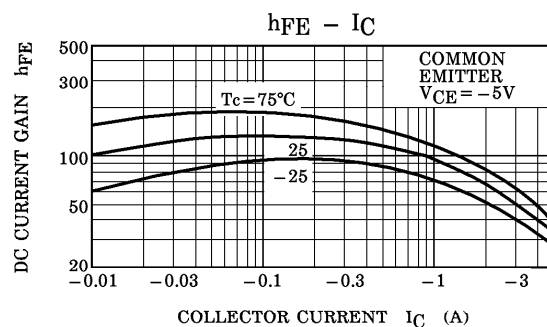
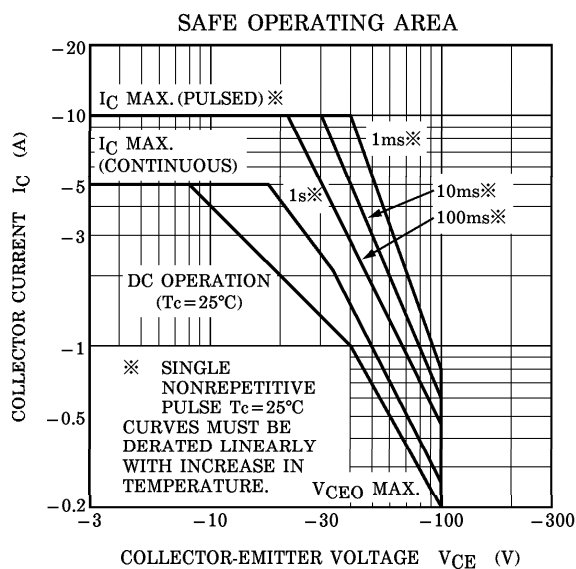
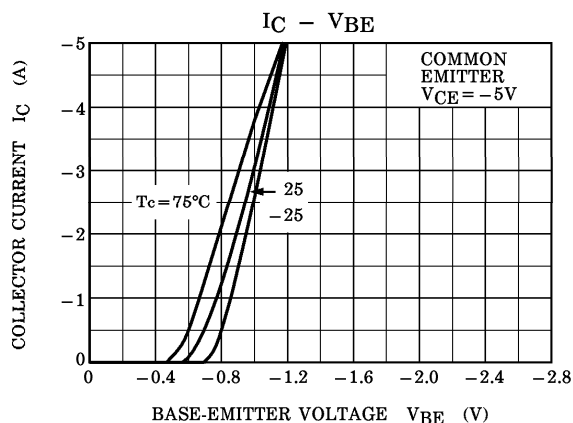
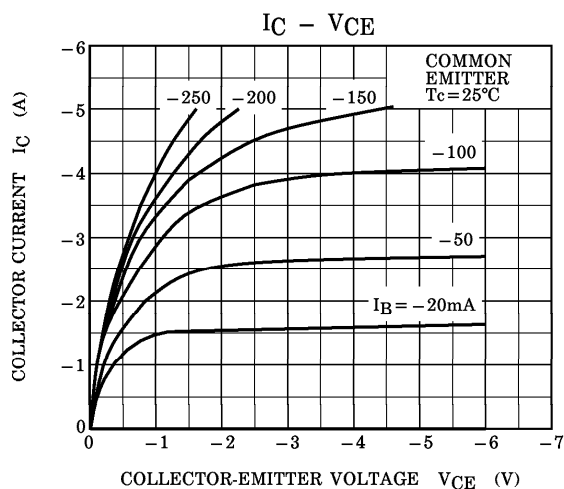


Mounting kit No.AC75  
Weight : 1.9g

### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -100V, I_E = 0$	—	—	-100	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$	—	—	-1	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-100	—	—	V
Emitter -Base Breakdown Voltage	$V_{(BR)EBO}$	$I_C = -10mA, I_C = 0$	-5	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -1A$	40	—	240	
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -4A$	20	—	—	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -4A, I_C = -0.4A$	—	—	-2.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -5V, I_C = -4A$	—	—	-1.5	V
Transition Frequency	$f_T$	$V_{CE} = -5V, I_C = -1A$	—	5	—	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	270	—	pF

Note :  $h_{FE(1)}$  Classification R : 40~80, O : 70~140, Y : 120~240



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