

2SB595

SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

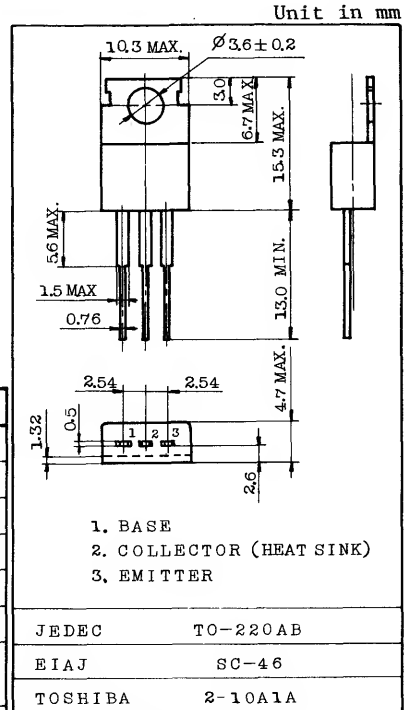
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- 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 (Ta=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 (Tc=25°C)	P_C	40	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°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	μA
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	$V_{(BR)EBO}$	$I_E = -10mA, I_C = 0$	-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	$V_{CE(sat)}$	$I_C = -4A, I_B = -0.4A$	-	-	-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

