

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07844 07-33-09

SILICON NPN TRIPLE DIFFUSED TYPE

2SD880

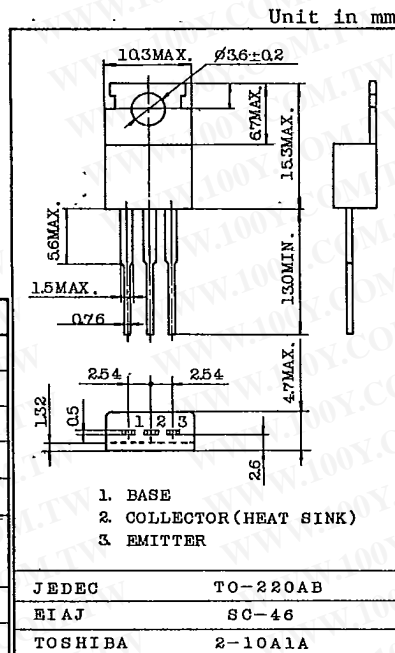
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES :

- High DC Current Gain
: $h_{FE}=300$ (Max.) ($V_{CE}=5V$, $I_C=0.5A$)
- Low Saturation Voltage
: $V_{CE(sat)}=1.0V$ (Max.) ($I_C=3A$, $I_B=0.3A$)
- High Power Dissipation : $P_C=30W$ ($T_c=25^\circ C$)
- Complementary to 2SB834.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	3	A
Base Current	I_B	0.5	A
Collector Power Dissipation	$T_a=25^\circ C$	T_j	1.5
	$T_c=25^\circ C$		30
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$



Mounting kit No. AC75
Weight : 1.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V$, $I_E=0$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V$, $I_C=0$	-	-	100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA$, $I_B=0$	60	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V$, $I_C=0.5A$ (Note)	60	-	300	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3A$, $I_B=0.3A$	-	0.25	1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V$, $I_C=0.5A$	-	0.7	1.0	V
Transition Frequency	f_T	$V_{CE}=5V$, $I_C=0.5A$	-	3.0	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	-	70	-	pF
Switching Time	Turn-on Time	t_{on}	-	0.8	-	μs
	Storage Time	t_{stg}	-	1.5	-	
	Fall Time	t_f	-	0.8	-	

Note: h_{FE} Classification 60~120, Y : 100~200, GR: 150~300.

TOSHIBA CORPORATION

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