

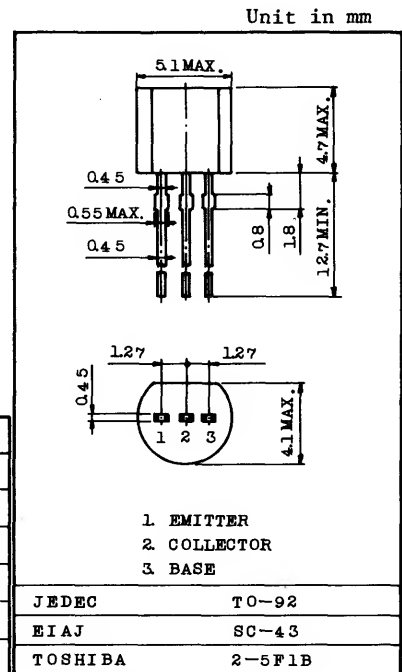
AUDIO FREQUENCY AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- High Breakdown Voltage : $V_{CE0} = -80V$
- Low Noise Figure : $NF = 1dB(Typ.)$, $10dB(Max.)$
- Excellent h_{FE} Linearity :
 $h_{FE}(0.1mA) / h_{FE}(2mA) = 0.90(Typ.)$
- Complementary to 2SC2868.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA
Base Current	I_B	-50	mA
Collector Power Dissipation'	P_C	400	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 125	$^\circ C$



Weight : 0.21g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -80V, I_E = 0$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-	-100	nA
DC Current Gain	h_{FE}	$V_{CE} = -6V, I_C = -2mA$	120	-	700	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -1mA$	-	-	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -10mA, I_B = -1mA$	-	-	-1.0	V
Transition Frequency	f_T	$V_{CE} = -10V, I_E = 2mA$	80	-	-	MHz
Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	3.0	7.0	pF
Noise Figure	NF	$V_{CB} = -6V, I_C = -0.1mA$ $R_g = 10k\Omega, f = 1kHz$	-	1.0	10	dB

Note : h_{FE} Classification Y:120 ~ 240 GR:200 ~ 400 BL:350 ~ 700

