

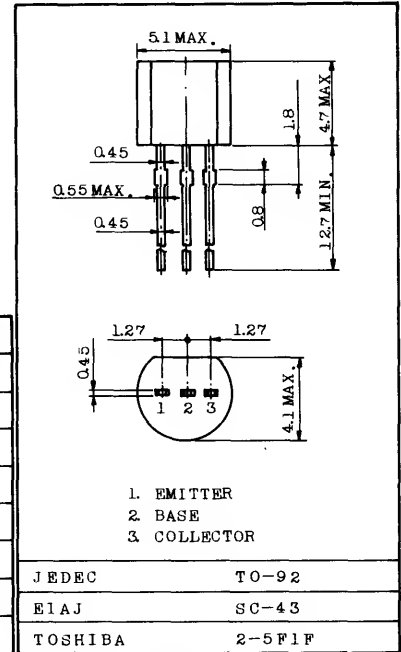
AUDIO FREQUENCY GENERAL PURPOSE AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- High Voltage and High Current
: $V_{CE0}=50V(\text{Min.})$, $I_C=150mA(\text{Max.})$
- Low Noise : $NF=0.9dB(\text{Typ.})$ at $f=1kHz$
- Complementary to TEC9015

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	60	V
Collector-Emitter Voltage	V_{CE0}	50	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	150	mA
Base Current Range	I_B	50	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



Weight : 0.21g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=50V$, $I_E=0$	-	-	50	nA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5V$, $I_C=0$	-	-	50	nA
DC Current Gain	h_{FE} (Note)	$V_{CE}=5V$, $I_C=1mA$	60	-	1000	-
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=1mA$, $I_B=0$	50	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA$, $I_B=10mA$	-	0.1	0.25	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=100mA$, $I_B=10mA$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE}=5V$, $I_E=10mA$	150	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	-	2.0	3.5	pF
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V$, $I_C=2mA$	0.58	0.63	0.70	V
Noise Figure	NF	$V_{CE}=5V$, $I_C=0.2mA$, $R_g=2k\Omega$, $f=1kHz$	-	0.9	10	dB

Note : h_{FE} Classification A : 60~150, B : 100~300, C : 200~600 D : 400~1000

