

AUDIO POWER AMPLIFIER APPLICATIONS.

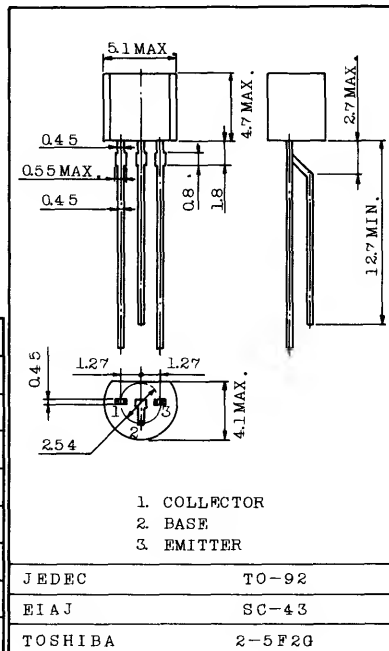
Unit in mm

FEATURES:

- . High h_{FE} : $h_{FE}=106 \sim 300$
- . 1W Output Applications.
- . Complementary to TED1702.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-35	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-800	mA
Emitter Current	I_E	800	mA
Collector Power Dissipation	P_C	600	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 ~ 150	$^\circ\text{C}$



Weight : 0.21g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO(1)}$	$V_{CB}=-30V, I_E=0$	-	-	-0.1	μA
	$I_{CBO(2)}$	$V_{CB}=-30V, I_E=0, T_a=150^\circ\text{C}$	-	-	-5	
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-100	nA
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-1V, I_C=-100\text{mA}$	106	-	300	
	$h_{FE(2)}$	$V_{CE}=-1V, I_C=-500\text{mA}$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}, I_B=-20\text{mA}$	-	-0.19	-0.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-1V, I_C=-500\text{mA}$	-	-	-1.2	V
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-10\text{mA}$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, f=1\text{MHz}, I_E=0$	-	19	-	pF

Note : $h_{FE(1)}$ Classification K:106 ~ 150, L:132 ~ 188, M:170 ~ 230, N:213 ~ 300

