

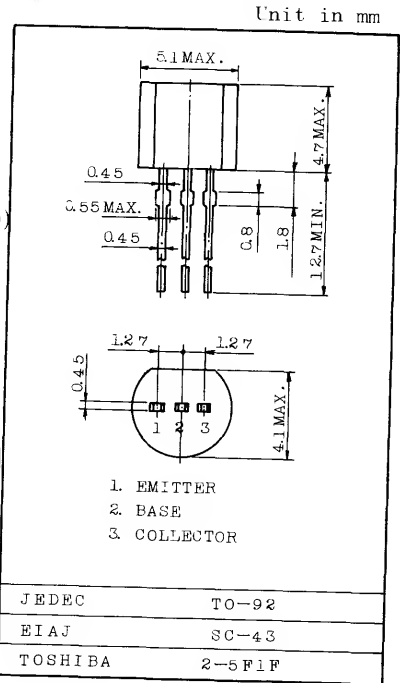
GENERAL-PURPOSE AMPLIFIER AND LOW NOISE AMPLIFIER APPLICATIONS.

FEATURES:

- Excellent h_{FE} Linearity : $h_{FE}(0.1mA)$ $h_{FE}(2mA)$
 $=0.95(Typ.)$
- Designed for Complementary Use with S1420($h_{FE}=70\ 700$)
- Small Collector Output Capacitance: $C_{ob}=4.5pF(Max.)$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EB0}	-7	V
Collector Current	I_C	-200	mA
Base Current	I_B	-200	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	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current	I_{CBO}	$V_{CB}=-30V, I_E=0$	-	-	-50	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=-6V, I_C=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-40	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=-5V, I_C=-2mA$	70	-	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-50mA, I_B=-10mA$	-	-	-0.22	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V, I_C=-2mA$	-	-0.65	-	V
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	-	4.5	pF
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-10mA$	150	300	-	MHz

