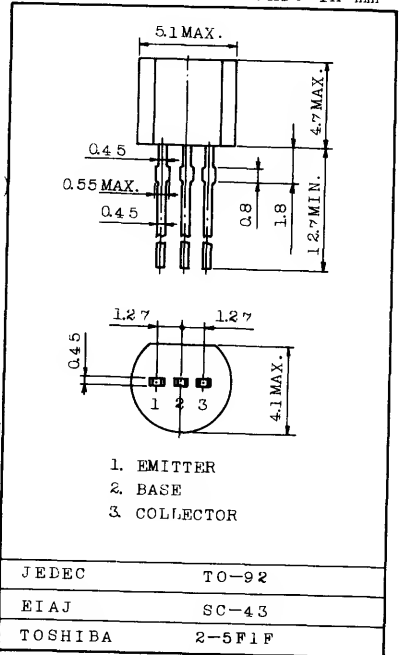


GENERAL PURPOSE AMPLIFIER AND LOW NOISE AMPLIFIER APPLICATIONS.

FEATURES:

- Excellent h_{FE} Linearity : $h_{FE}(0.1mA)/h_{FE}(2mA) = 0.95$ (Typ.)
- Designed for Complementary Use with S1423 ($h_{FE}=70\sim400$)
- Small Collector Output Capacitance: $C_{ob}=3.5pF$ (Max.)

Unit in mm



Weight : 0.21g

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	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	$^{\circ}C$

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

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=40V, I_E=0$	-	-	50	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=6V, I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	60	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=2mA$	70	-	700	
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}	$V_{CB}=10V, I_E=0, f=1MHz$	-	-	3.5	pF
Transition Frequency	f_T	$V_{CE}=5V, I_C=10mA$	150	400	-	MHz

