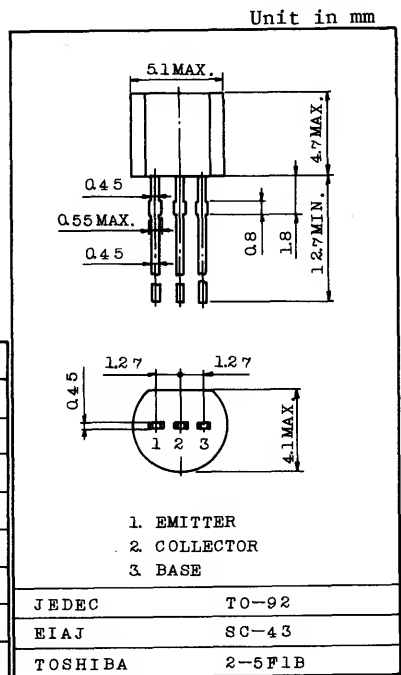


HIGH FREQUENCY AMPLIFIER APPLICATIONS.  
 LOW FREQUENCY AMPLIFIER APPLICATIONS.  
 HIGH SPEED SWITCHING APPLICATIONS.

- High Transition Frequency :  $f_T=400\text{MHz(Typ.)}$
- Low  $V_{CE(sat)}$  :  $V_{CE(sat)}=0.5\text{V(Max.)}$
- Small Collector Output Capacitance :  $C_{ob}=4\text{pF(Max.)}$
- High Speed Switching.
- Designed for Complementary Use with 2SC2754.

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	$I_C$	-100	mA
Base Current	$I_B$	-50	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 125	$^\circ\text{C}$



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

Weight : 0.21g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-35\text{V}, I_E=0$	-	-	-0.1	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$	-	-	-0.1	$\mu\text{A}$
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$	70	-	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$	-	-	-0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$	-0.5	-	-0.8	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$	-	-	-1.0	V
Transition Frequency	$f_T$	$V_{CE}=-12\text{V}, I_C=-10\text{mA}$	100	400	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	2.5	4	pF
Switching Time	Turn-on Time	$t_{on}$	-	30	-	ns
	Storage Time	$t_{stg}$	-	250	-	
	Fall Time	$t_f$	-	70	-	

Note:  $h_{FE}$  Classification O : 70~140, Y : 120~240, GR : 200~400

