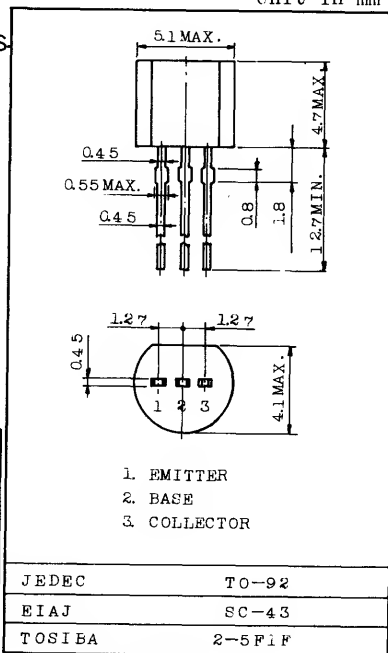


FOR HIGH VOLTAGE AMPLIFIER APPLICATIONS
 PLASMA DISPLAY, NIXIE TUBE DRIVER APPLICATIONS
 COLOR TV VIDEO OUTPUT APPLICATIONS

FEATURES:

- . Complementary to S1837.
- . 300V Minimum $V_{(BR)CEO}$.
- . Low Saturation Voltage : $V_{CE(sat)}=0.5V(\text{Max.})$
- . Small Collector Output Capacitance.

Unit in mm



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	100	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}\text{C}$

Weight : 0.21g

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

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=300V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=6V, I_C=0$	-	-	0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	300	-	-	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=0.1\text{mA}, I_E=0$	300	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=10V, I_C=1\text{mA}$	20	-	-	
	$h_{FE(2)}$	$V_{CE}=10V, I_C=20\text{mA}$	30	-	150	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$	-	-	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20\text{mA}, I_B=2\text{mA}$	-	-	1.2	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=20\text{mA}$	50	80	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=20V, I_E=0, f=1\text{MHz}$	-	3	4	pF

