

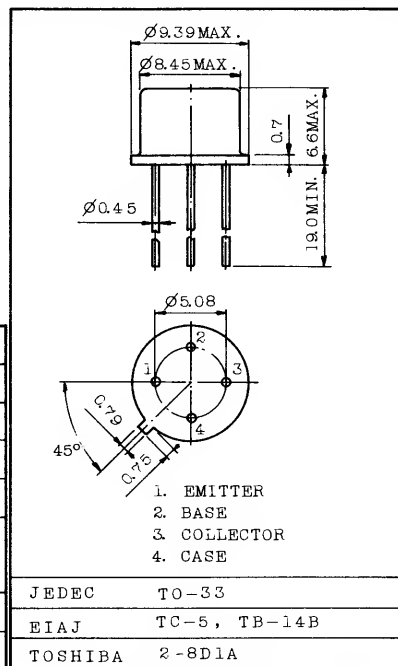
HIGH POWER AMPLIFIER FOR CATV APPLICATIONS.

FEATURES:

- Wide Band and High Gain for Class A Amplifier.
- Excellent Cross Modulation Characteristics.
- All Electrodes Insulated from Case.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	40	V
Collector-Emitter Voltage	V_{CE0}	15	V
Emitter-Base Voltage	V_{EB0}	3.5	V
Collector Current	I_C	350	mA
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	3.5	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 ~ 175	$^\circ\text{C}$



Weight : 1.13g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$	-	-	1.0	μA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1\text{mA}, I_E=0$	40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	15	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}, I_C=100\text{mA}$	30	-	180	-
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	2.9	3.5	pF
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=90\text{mA}$	2.0	2.7	-	GHz
Power Gain	$G_{pe(1)}$	$V_{CE}=10\text{V}, I_C=90\text{mA}$ $f=250\text{MHz}$	14	16	-	dB
	$G_{pe(2)}$	$V_{CE}=10\text{V}, I_C=90\text{mA}$ $f=800\text{MHz}$	-	6	-	dB

