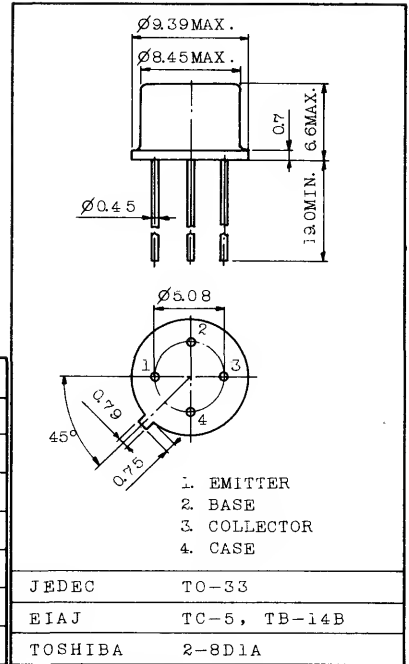


Unit in mm

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}	50	V
Collector-Emitter Voltage	V_{CEO}	35	V
Emitter-Base Voltage	V_{EB0}	3	V
Collector Current	I_C	300	mA
Collector Power Dissipation	P_C	600	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$

Weight : 1.2g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=20\text{V}, I_E=0$	-	-	0.3	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5\text{mA}, I_B=0$	35	-	-	V
DC Current Gain	h_{FE} (Note)	$V_{CE}=10\text{V}, I_C=50\text{mA}$	25	-	90	
Transition Frequency	f_T	$V_{CE}=20\text{V}, I_E=-50\text{mA}$	1100	1400	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=15\text{V}, I_E=0, f=1\text{MHz}$	-	2.2	3.0	pF
Noise Figure	NF	$V_{CE}=20\text{V}, I_C=10\text{mA}$ $R_g=50\Omega, f=200\text{MHz}$	-	4.0	5.0	dB
Power Gain	G_{pe}	$V_{CC}=20\text{V}, I_E=-50\text{mA}$ $f=200\text{MHz}$	10	14	-	dB

Note: h_{FE} Classification R:25 ~ 50 0:45 ~ 90

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