

AUDIO POWER AMPLIFIER APPLICATIONS.  
VERTICAL DEFLECTION OUTPUT APPLICATION IN TV.

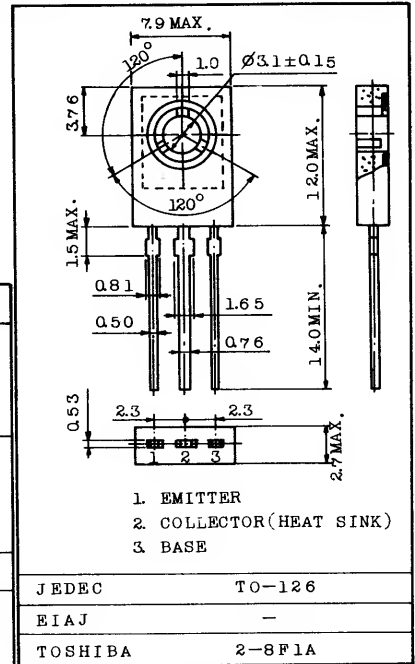
Unit in mm

FEATURES:

- Designed for Complementary Use with BD234, BD236 and BD238

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	BD233	45	V	
	BD235	60		
	BD237	100		
Collector-Emitter Voltage	BD233	45	V	
	BD235	60		
	BD237	80		
Emitter-Base Voltage	VEBO	5	V	
Collector Current	DC	IC	2	A
	Peak	ICM	6	
Base Current	IB	2	A	
Collector Power Dissipation (Tc=25°C)	PC	25	W	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	Tstg	-55 ~ 150	°C	



Weight : 0.72g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	BD233	V <sub>CB</sub> =45V, I <sub>E</sub> =0	-	-	100	μA
	BD235	V <sub>CB</sub> =60V, I <sub>E</sub> =0				
	BD237	V <sub>CB</sub> =100V, I <sub>E</sub> =0				
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	1	mA
DC Current Gain	h <sub>FE</sub> (1)	V <sub>CE</sub> =2V, I <sub>C</sub> =150mA	40	-	-	
	h <sub>FE</sub> (2)	V <sub>CE</sub> =2V, I <sub>C</sub> =1A	25	-	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =1A, I <sub>B</sub> =0.1A	-	-	0.6	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =1A	-	-	1.3	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =250mA	3	40	-	MHz

# BD233 • BD235 • BD237

