



AUDIO POWER AMPLIFIER

DC TO DC CONVERTER

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- Technical drawing of a 2N4350A PNP transistor, showing dimensions in inches and millimeters.
- Top View Dimensions:**
- Base diameter: $\phi 4.3 \sim 5.3$
 - Base thickness: 17.0 MAX
 - Base width: 4.3
 - Collector width: 1.5 MAX
 - Collector thickness: 22.0 MAX
 - Collector width (bottom): 1.30 MIN
- Side View Dimensions:**
- Base diameter: $\phi 4.3 \sim 5.3$
 - Base thickness: 12 ~ 22
 - Collector thickness: 1.4 ~ 2.5
 - Collector width: 1.5 ~ 3.5
 - Collector thickness (bottom): 0.75 ~ 1.3
 - Collector width (bottom): 0.3 ~ 0.9
 - Collector thickness (bottom): 1.1 ~ 3.1
- Front View Dimensions:**
- Base diameter: $\phi 4.3 \sim 5.3$
 - Base thickness: 12 ~ 22
 - Collector thickness: 1.4 ~ 2.5
 - Collector width: 1.5 ~ 3.5
 - Collector thickness (bottom): 0.75 ~ 1.3
 - Collector width (bottom): 0.3 ~ 0.9
 - Collector thickness (bottom): 1.1 ~ 3.1
- TERMINATIONS**
1. BASE
 2. COLLECTOR (FRONT)
 3. EMITTER

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	VCBO	160	V
Collector-Emitter Voltage	VCEO	120	V
Emitter-Base voltage	VEBO	6	V
Collector Current (DC)	IC	8	A
Collector Dissipation	PC	80	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~150	°C

Characterristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	BVCBO	IC=5 mA IE=0	160			V
Collector Emitter Breakdown Voltage	BVCEO	IC=10 mA	120			V
Emitter Base Breakdown Voltage	BVEBO	RBE=∞	6			V
Collector Cutoff Current	ICBO	IE=5mA IC=0			0.1	mA
Emitter Cutoff Current	IEBO	VCB=60V IE=0			0.1	mA
*DC Current Gain	hFE1	VEB=4V IC=0	55		160	
DC Current Gain	hFE2	VCE=5V IC=1A	50			
Collector- Emitter Saturation Voltage	VCE(sat)	VCE=5V IC=3A IC=3A IB=0.3A			1.5	V