



2SC3907

NPN PLANAR SILICON TRANSISTOR

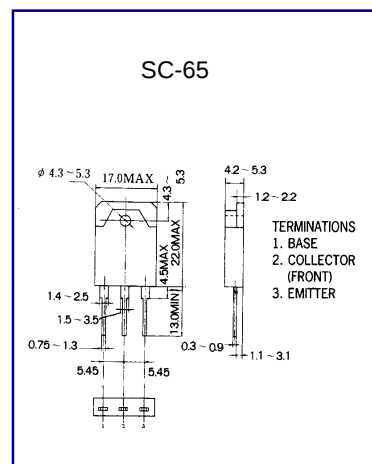
AUDIO POWER AMPLIFIER

DC TO DC CONVERTER

- High Current Capability
- High Power Dissipation
- Complementary to 2SA1516

ABSOLUTE MAXIMUM RATING (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	180	V
Collector-Emitter Voltage	V _{CEO}	180	V
Emitter-Base voltage	V _{EBO}	6	V
Collector Current (DC)	I _C	12	A
Collector Dissipation	P _C	130	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	BV _{CBO}	I _C =5 mA I _E =0	200			V
Collector Emitter Breakdown Voltage	BV _{CEO}	I _C =10 mA R _{BE} =∞	140			V
Emitter Base Breakdown Voltage	BV _{EBO}	I _E =5mA I _C =0	6			V
Collector Cutoff Current	I _{CBO}	V _{CB} =100V I _E =0			0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V I _C =0			0.1	mA
*DC Current Gain	h _{FE1}	V _{CE} =5V I _C =1A	55		160	
DC Current Gain	h _{FE2}	V _{CE} =5V I _C =5A	50			
Collector- Emitter Saturation Voltage	V _{CE(sat)}	I _C =8A I _B =0.8A			2.0	V