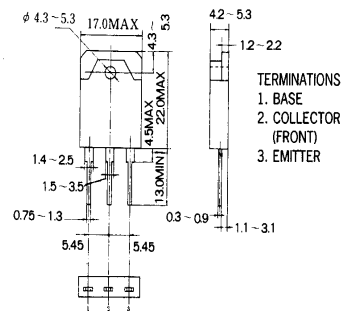
2SD1148 NPN PLANAR SILICON TRANSISTOR

AUDIO POWER AMPLIFIER
DC TO DC CONVERTER

- High Current Capability
- High Power Dissipation
- Complementary to 2SB863

SC-65



ABSOLUTE MAXIMUM RATING (T_A=25℃)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	200	V
Collector-Emitter Voltage	V_{CEO}	140	V
Emitter-Base voltage	V_{EBO}	6	V
Collector Current (DC)	I_C	10	A
Collector Dissipation	P_C	100	W
Junction Temperature	T_j	150	℃
Storage Temperature	Tstg	-55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃)

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=5A I_B=0.5A			2.0	V

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