

isc Silicon PNP Power Transistor

2SB705B

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -160V(Min)
- Complement to Type 2SD745B
- · High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

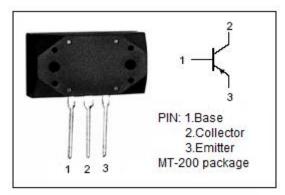


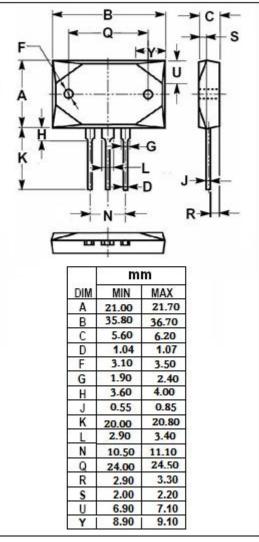
APPLICATIONS

 Suitable for output stages of 60~120 watts audio amplifier and voltage regulations.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	-160	V	
V _{CEO}	Collector-Emitter Voltage	-160	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-10	А	
Ісм	Collector Current-Peak	-15	А	
P _C	Collector Power Dissipation @ T _C =25℃	120	W	
TJ	Junction Temperature	150	°C	
T _{stg}	T _{stg} Storage Temperature Range		°C	







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ELECTRICAL CHARACTERISTICS

 $T_c=25$ °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= -5A; I _B = -0.5A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -140V; I _E = 0			-50	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-50	μА
h _{FE-1}	DC Current Gain	I _C = -50mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -5V	40		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1.0MHz		430		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.2A; V _{CE} = -5V		17		MHz

♦ h_{FE-2} Classifications

S	R	Q
40-80	60-120	100-200

NOTICE:

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