

isc Silicon PNP Power Transistor

BD810

DESCRIPTION

- DC Current Gain -
- : h_{FE} =30@ I_C= -2A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -80V(Min)
- Complement to Type BD809
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

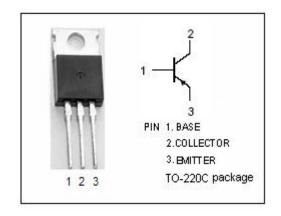
 Designed for use in high power audio amplifiers utilizing complementary or quasi complementary circuits.

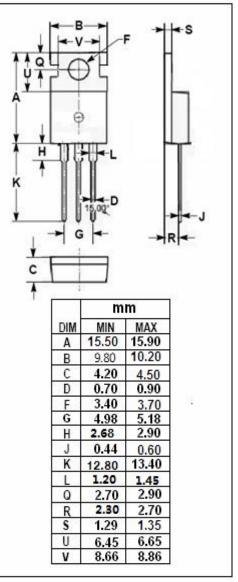
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-10	Α	
I _B	Base Current	-6	А	
Pc	Collector Power Dissipation @ T _C =25°C	90	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.39	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA ;I _B = 0	-80		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A		-1.1	٧
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A ; V _{CE} = -2V		-1.6	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V;I _E = 0		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-2.0	mA
h _{FE-1}	DC Current Gain	I _C = -2A ; V _{CE} = -2V	30		
h _{FE-2}	DC Current Gain	I _C = -4A ; V _{CE} = -2V	15		
f _T	Current-Gain—Bandwidth Product	I _C = -1.0A ; V _{CE} = -10V; f _{test} = 1.0MHz	1.5		MHz

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