

isc Silicon PNP Power Transistor

BD800

INCHANGE SEMICONDUCTOR

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
- : $V_{CEO(SUS)} = -80V(Min)$
- Low Saturation Voltage
- Complement to Type BD799
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for a wide variety of medium-power switching and amplifier applications, such as series and shunt regulators and driver and output stages of high-fidelity amplifiers.





ABSOLUT	E MAXIMUM	RATINGS(Ta=	= 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
lc	Collector Current-Continuous	-8	А
I _B	Base Current-Continuous	-3	А
Pc	Collector Power Dissipation T_c =25 °C	65	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Ttemperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.92	°C/W	



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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	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 = -3A; I _B = -0.3A			-1	V
V _{BE} (on)	Base-Emitter On Voltage	I _C = -3A ; V _{CE} = -2V			-1.6	V
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.1	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	mA
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -2V	30			
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -2V	15			
fT	Current-Gain—Bandwidth Product	I _C = -0.25A ;V _{CE} = -10V,f _{test} = 1MHz	3			MHz

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