

isc Silicon PNP Power Transistor

2SB850

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -40V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= -1.2V(Max) @I_C= -5A
- · Wide Area of Safe Operation
- Complement to Type 2SD1117
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

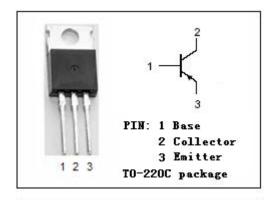
 Designed for audio amplifier, series regulators and general purpose power amplifiers.

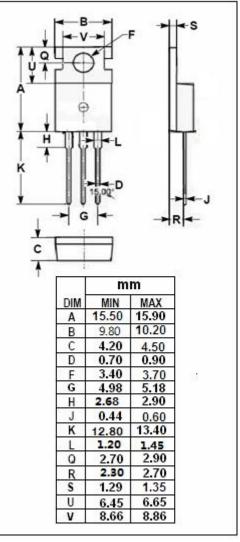
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current-Continuous	-10	Α	
I _B	Base Current-Continuous	-2	Α	
Pc	Collector Power Dissipation @ Tc=25°C	50	W	
TJ	Junction Temperature	nction Temperature 150		
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-40			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -0.1mA; I _E = 0	-40			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -0.1mA; I _C = 0	-7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.2	V
V _{B E(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-10	μ A
h _{FE}	DC Current Gain	I _C = -2A; V _{CE} = -5V	40		240	

NOTICE:

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