

isc Silicon PNP Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -45V(Min)
- · High DC Current Gain
- · Low Saturation Voltage
- Complement to Type BD839
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

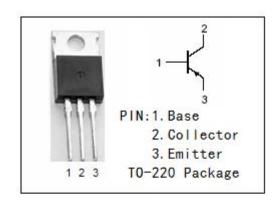
 Designed for driver-stages in hi-fi amplifiers and television circuits.

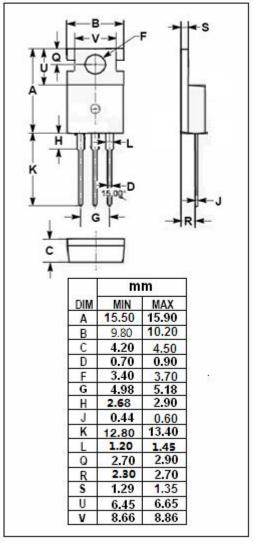
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-45	V	
V _{CEO}	Collector-Emitter Voltage	-45	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-1.5	Α	
I _{CP}	Collector Current-Peak	-3.0	Α	
Pc	Collector Power Dissipation @ T _a =25°C	2	10/	
	Collector Power Dissipation @ T _C =25°C	10	10 W	
TJ	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	12.5	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient		°C/W







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BD840

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-45			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =- 1A; I _B = -100mA			-0.8	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= -1.0A; Vc== -2V			-1.3	V
І _{СВО}	Collector Cutoff Current	V _{CB} = -30V; I _E = 0			-0.1	- uA
		V _{CB} =-30V; I _E = 0; T _C = 125°C			-10	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	uA
h _{FE-1}	DC Current Gain	I _C = -5mA ; V _{CE} = -2V	25			
h _{FE-2}	DC Current Gain	I _C = -150mA ; V _{CE} = -2V	40		250	
h _{FE-3}	DC Current Gain	I _C = -1A ; V _{CE} =- 2V	25			
f⊤	Current-Gain—Bandwidth Product	I _C = -50mA ; V _{CE} =- 5V		50		MHz

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