

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 BD825
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

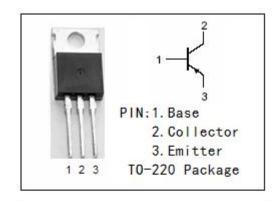
 Designed for driver-stages in hi-fi amplifiers and television circuits.

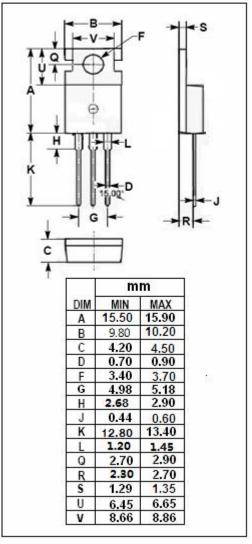
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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	-1.0	Α	
I _{CP}	Collector Current-Peak	-1.5	Α	
Pc	Collector Power Dissipation @ Ta=25°C	2	W	
	Collector Power Dissipation @ T _C =25°C	10	VV	
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}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W







ISC Silicon PNP Power Transistor

BD826

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 =- 500mA; I _B = -50mA			-0.5	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= -0.5A; Vc== -2V			-1.0	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 = -500mA ; V _{CE} =- 2V	25			
f⊤	Current-Gain—Bandwidth Product	I _C = -50mA ; V _{CE} =- 5V		75		MHz

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.