

ISC Silicon NPN Power Transistor

BD162

DESCRIPTION

- Continuous Collector Current -I_C= 4A
- Excellent Safe Operating Area
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

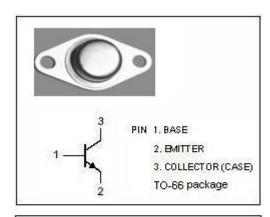


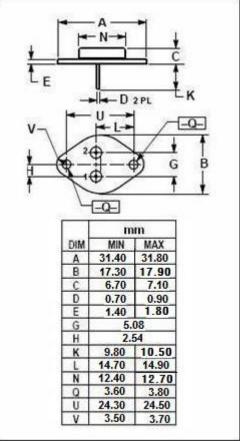
APPLICATIONS

 Designed for general purpose switching and amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25 °C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	4	Α
I _B	Base Current-Continuous	2	Α
Pc	Collector Power Dissipation@Tc=25℃	15	W
TJ	Junction Temperature 175		$^{\circ}$
T _{stg}	Storage Temperature -65~175		$^{\circ}$







isc Silicon NPN Power Transistor

BD162

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA ; I _B = 0	20		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A		1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		2.0	V
V _{BE} (sat) -1	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A		2.0	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		3.0	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0		100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		100	uA
h _{FE-1}	DC Current Gain	Ic= 1A; V _{CE} = 2V	30	150	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 2V	5		

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.