

Silicon PNP Power Transistors

BDX64C

DESCRIPTION

www.datasheet4u.com

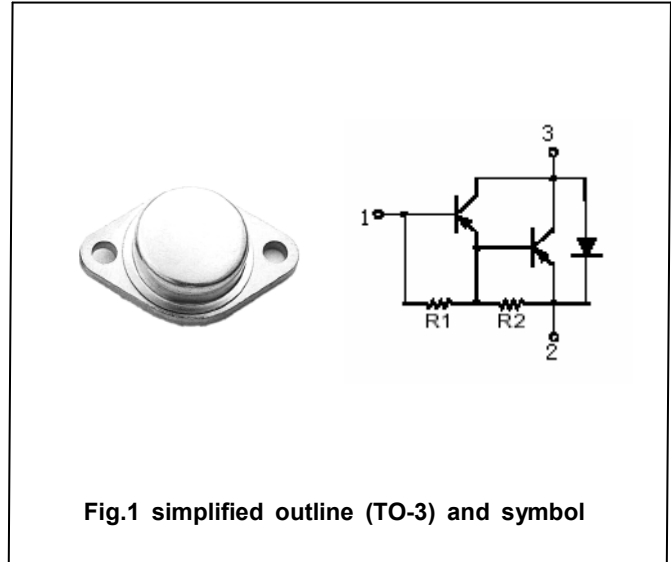
- With TO-3 package
- DARLINGTON
- Complement to type BDX65C

APPLICATIONS

- Designed for power amplification and switching applications.

PINNING (See Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-120	V
V_{CEO}	Collector-emitter voltage	Open base	-120	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-12	A
I_{CM}	Collector current(peak)		-16	A
I_B	Base current		-0.2	A
P_T	Total power dissipation	$T_C=25^\circ\text{C}$	117	W
T_j	Junction temperature		-55~200	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~200	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance from junction to case	1.5	$^\circ\text{C}/\text{W}$

Silicon PNP Power Transistors

BDX64C

CHARACTERISTICS

T_j=25°C unless otherwise specified

www.datasheet4u.com

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =-0.1A ; I _B =0;L=25mH	-120			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-20mA			-2	V
V _{BE}	Base-emitter on voltage	I _C =-5A;V _{CE} =-3V			-2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-120V; I _E =0 T _C =150°C			-0.2 -2	mA
I _{CEO}	Collector cut-off current	V _{CE} =-60V; I _B =0			-1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-5	mA
V _F	Diode forward voltage	I _F =-5A		-1.8		V
h _{FE-1}	DC current gain	I _C =-1A ; V _{CE} =-3V		1500		
h _{FE-2}	DC current gain	I _C =-5A ; V _{CE} =-3V	1000			
h _{FE-3}	DC current gain	I _C =-12A ; V _{CE} =-3V		750		
f _T	Transition frequency	I _C =-5A ; V _{CE} =-3V;f=1MHz		7		MHz

PACKAGE OUTLINE

www.datasheet4u.com

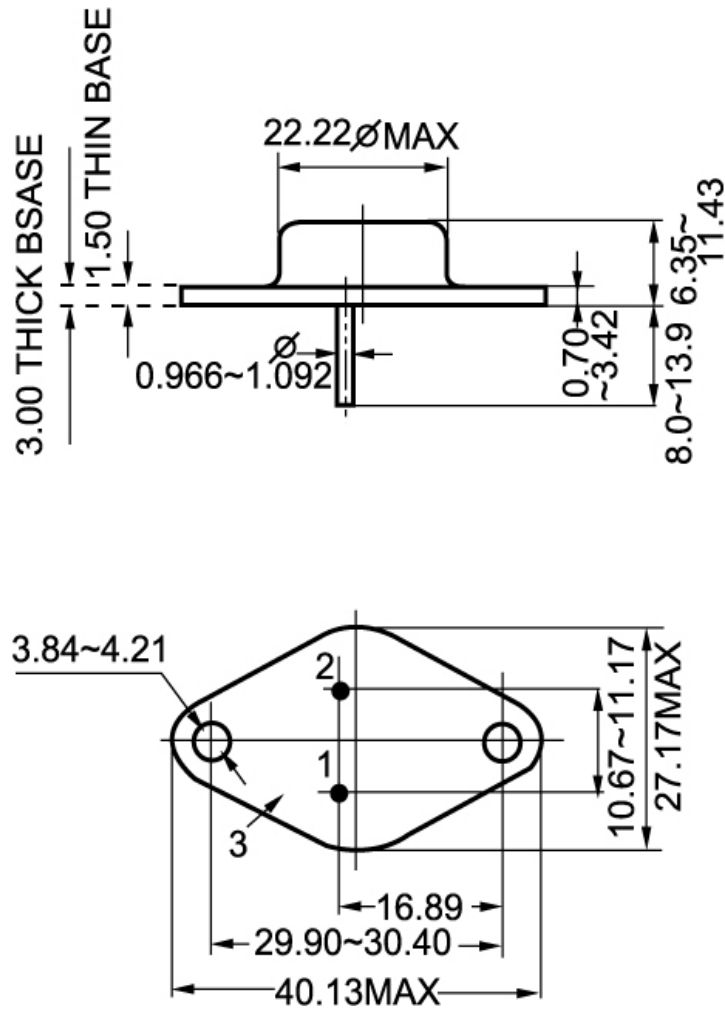


Fig.2 Outline dimensions