

Silicon NPN Power Transistors

BDX67

DESCRIPTION

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- With TO-3 package
- High current capability
- DARLINGTON

APPLICATIONS

- Designed for power amplification and switching application.

PINNING (See Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

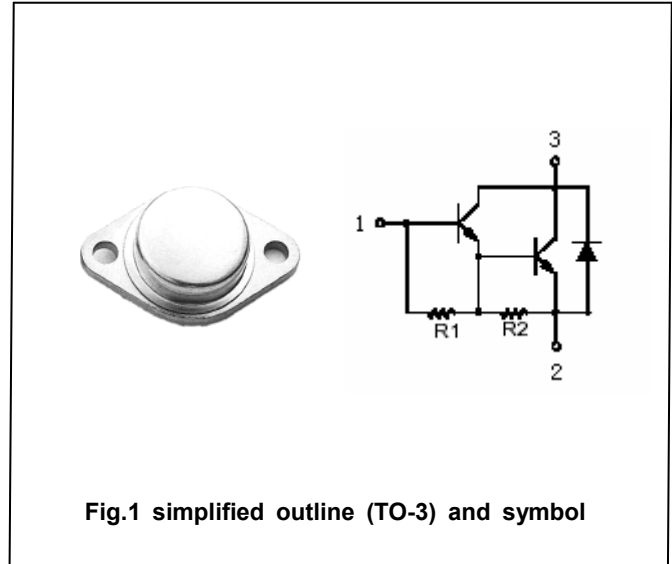


Fig.1 simplified outline (TO-3) and symbol

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	80	V
V_{CEO}	Collector-emitter voltage	Open base	60	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		16	A
I_{CM}	Collector current(peak)		20	A
I_B	Base current		0.25	A
P_T	Total power dissipation	$T_C=25^\circ\text{C}$	117	W
T_j	Junction temperature		150	$^\circ\text{C}$
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	1.17	$^\circ\text{C}/\text{W}$

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CHARACTERISTICS

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 $T_j=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	$I_C=0.1A$; $I_B=0$; $L=25mH$	60			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=10A$; $I_B=0.04A$			2	V
I_{CBO}	Collector cut-off current	$V_{CB}=40V$; $I_E=0$ $T_C=150^\circ\text{C}$			1 5	mA
I_{CEO}	Collector cut-off current	$V_{CE}=30V$; $I_B=0$			3	mA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V$; $I_C=0$			3	mA

Switching times

t_{on}	Turn-on time	$I_C=10A$; $I_{B1}=-I_{B2}=0.04A$ $V_{CC}=12V$;		1.0		μs
t_{off}	Turn-off time			3.5		μs

PACKAGE OUTLINE

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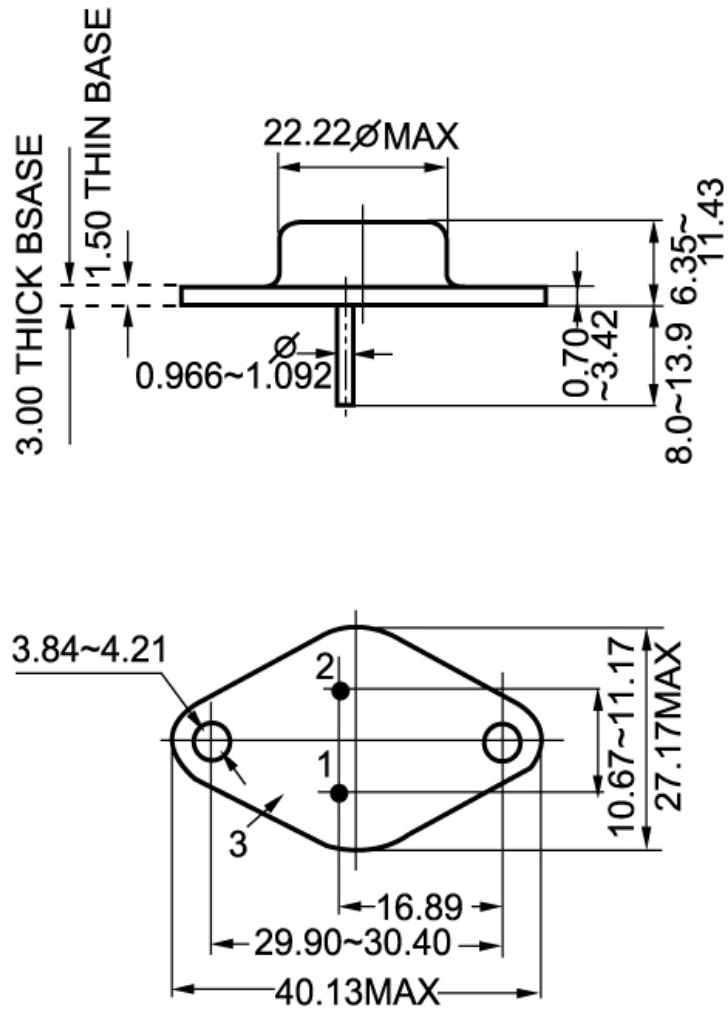


Fig.2 Outline dimensions