

Silicon NPN Power Transistors

BU922

DESCRIPTION

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- With TO-3 package
- High current;high voltage
- DARLINGTON

APPLICATIONS

- Designed for automotive ignition applications and inverter circuits for motor control.

PINNING(see fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

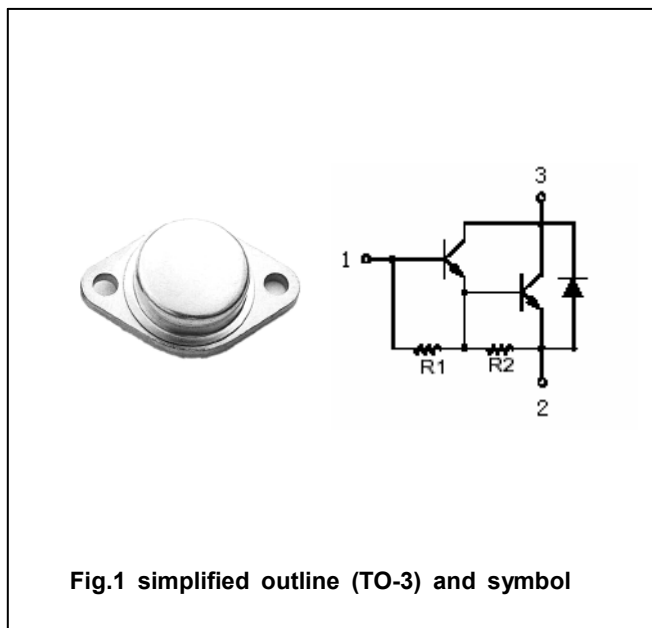


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	500	V
V _{CEO}	Collector-emitter voltage	Open base	450	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		10	A
I _{CM}	Collector current-peak		15	A
I _B	Base current		5	A
P _T	Total power dissipation	T _c =25°C	120	W
T _j	Junction temperature		175	°C
T _{stg}	Storage temperature		-65~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.25	°C/W

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CHARACTERISTICS

T_j=25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =0.1A; I _B =0	450			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =5A; I _B =50mA			1.8	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =7 A; I _B =140mA			1.8	V
V _{BEsat-1}	Base-emitter saturation voltage	I _C =5A; I _B =50mA			2.2	V
V _{BEsat-2}	Base-emitter saturation voltage	I _C =7 A; I _B =140mA			2.5	V
I _{CES}	Collector cut-off current	V _{CE} =500V; V _{BE} =0 T _C =150°C			0.25 0.50	mA
I _{CEO}	Collector cut-off current	V _{CE} =450V; I _B =0			0.25	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			50	mA
h _{FE}	DC current gain	I _C =2A; V _{EB} =2V	500			
V _F	Diode forward voltage	I _F =7A			2.5	V

PACKAGE OUTLINE

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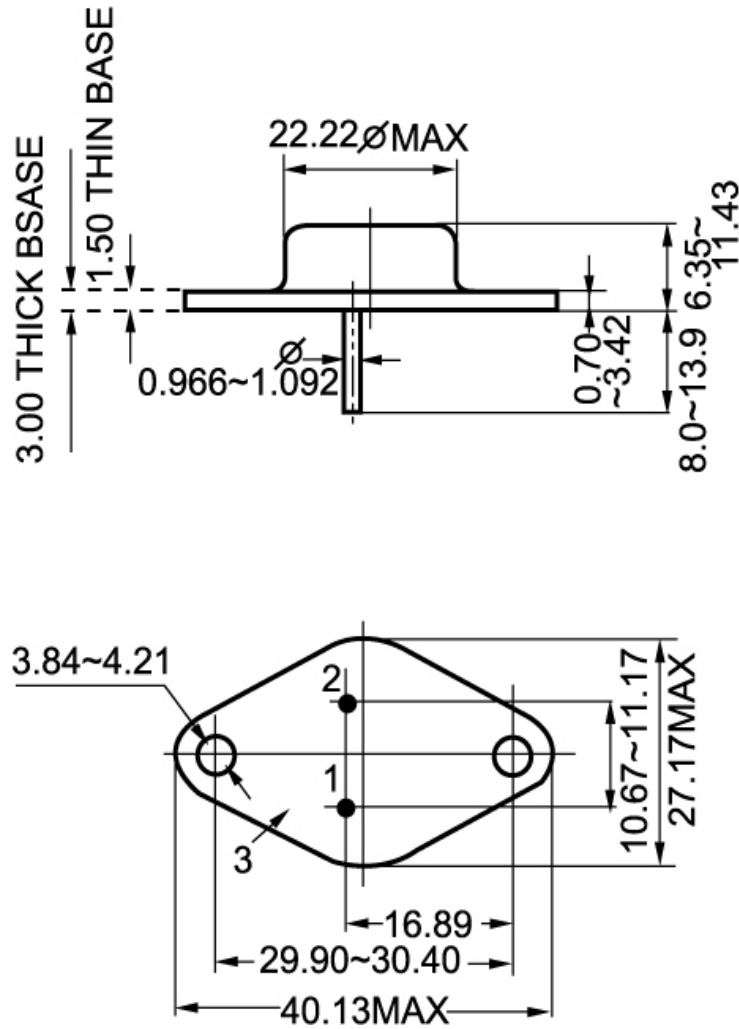


Fig.2 Outline dimensions