

Silicon PNP Power Transistors

MJ2955A

DESCRIPTION

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- With TO-3 package
- Complement to type 2N3055A
- Excellent safe operating area

APPLICATIONS

- For high power audio ,stepping motor and other linear applications
- Relay or solenoid drivers
- DC-DC converters inverters

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

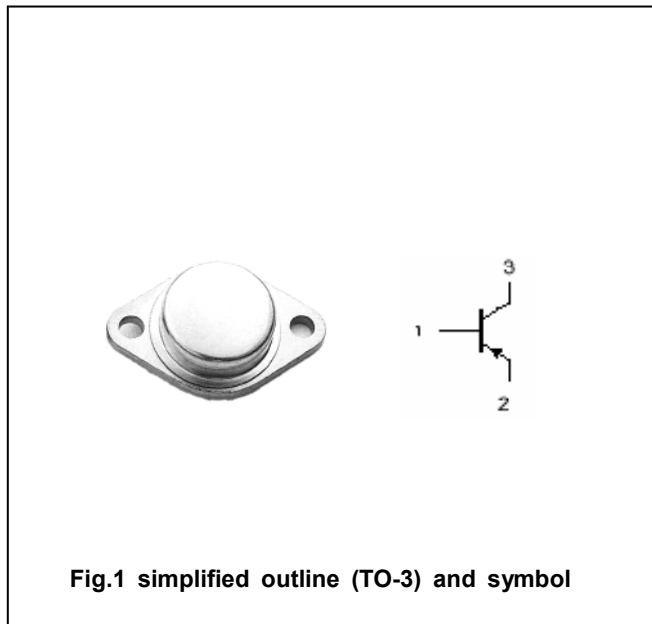


Fig.1 simplified outline (TO-3) and symbol

ABSOLUTE MAXIMUM RATINGS(T_C=25 °C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	-100	V
V _{CEO}	Collector-emitter voltage	Open base	-60	V
V _{EBO}	Emitter-base voltage	Open collector	-7	V
I _C	Collector current		-15	A
I _B	Base current		-7	A
P _C	Collector power dissipation	T _C =25 °C	115	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-65~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.52	°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 =-0.2A ; I _B =0	-60			V
V _{CE(sat)-1}	Collector-emitter saturation voltage	I _C =-4A; I _B =-0.4A			-1.1	V
V _{CE(sat)-2}	Collector-emitter saturation voltage	I _C =-10A; I _B =-3.3A			-3.0	V
V _{CE(sat)-3}	Collector-emitter saturation voltage	I _C =-15A; I _B =-7.0A			-5.0	V
V _{BE}	Base-emitter on voltage	I _C =-4A ; V _{CE} =-4V			-1.8	V
I _{CEO}	Collector cut-off current	V _{CE} =-30V; V _{BE(off)} =0			-0.7	mA
I _{CEV}	Collector cut-off current	V _{CE} =Rated Value; V _{BE(off)} =1.5V T _C =150°C			-5.0 -30	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-7V; I _C =0			-5.0	mA
h _{FE-1}	DC current gain	I _C =-4A ; V _{CE} =-2V	10		70	
h _{FE-2}	DC current gain	I _C =-4A ; V _{CE} =-4V	20		70	
h _{FE-3}	DC current gain	I _C =-10A ; V _{CE} =-4V	5			
I _{s/b}	Second breakdown collector current With base forward biased	V _{CE} =-60Vdc, t=0.5 s, Nonrepetitive	1.95			A
C _{OB}	Output capacitance	I _E =0 ; V _{CB} =-10V; f=1.0MHz	60		600	pF
f _T	Transition frequency	I _C =-1A ; V _{CE} =-4V; f=1.0MHz	2.2			MHz

PACKAGE OUTLINE

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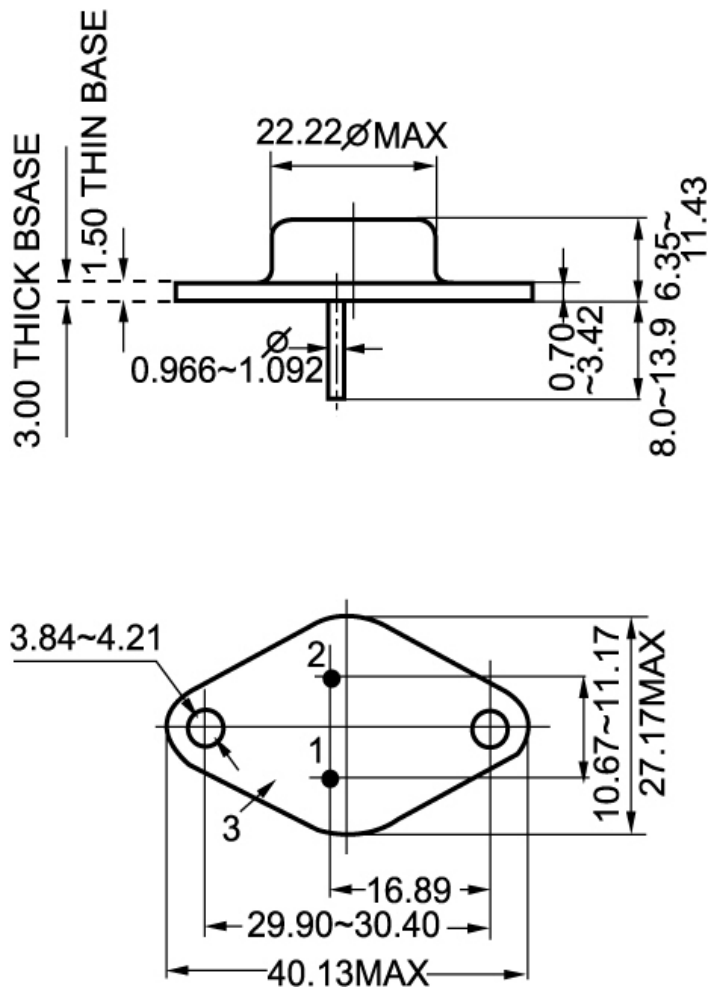


Fig.2 outline dimensions (unindicated tolerance:±0.1mm)

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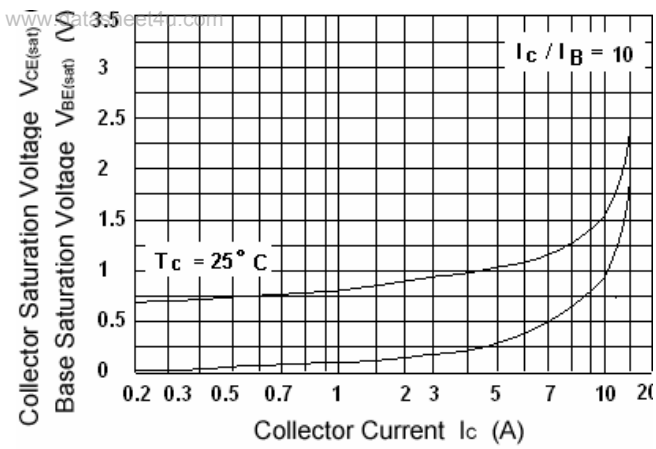


Fig.3 Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

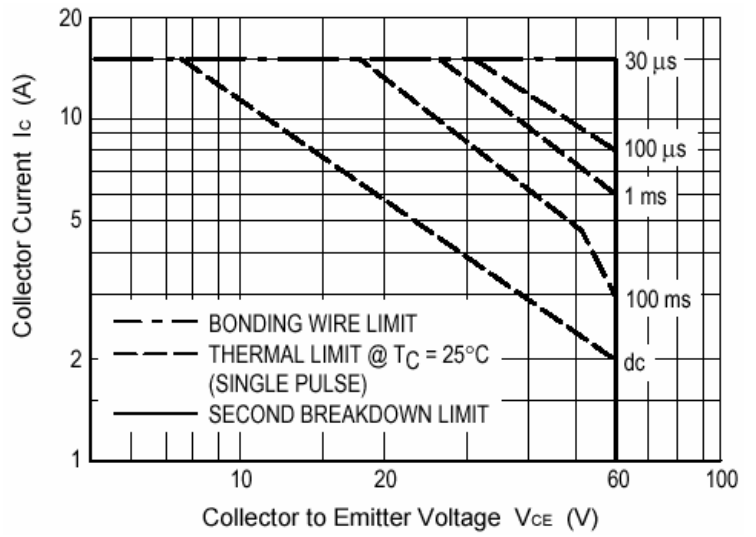


Fig.4 Safe Operating Area

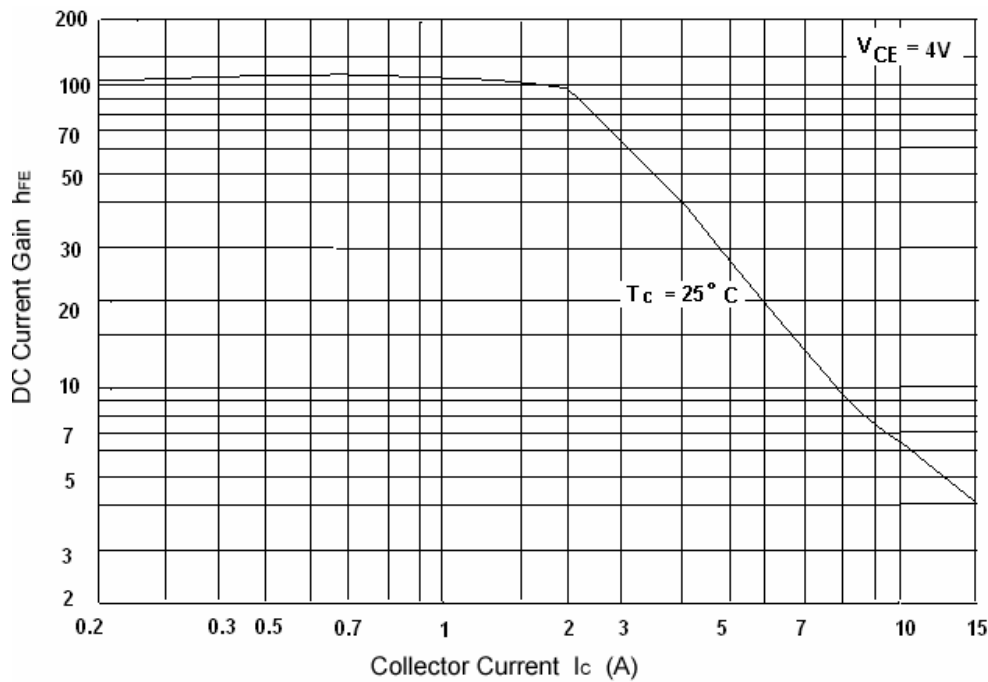


Fig.5 DC current Gain