

## Silicon PNP Power Transistors

MJ2955

## DESCRIPTION

- With TO-3 package
- Complement to type MJ2955
- DC current gain  $-h_{FE} = 20-70 @ I_C = 4 \text{ A}$
- Excellent safe operating area

## APPLICATIONS

- Designed for general-purpose switching and amplifier applications.

## PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

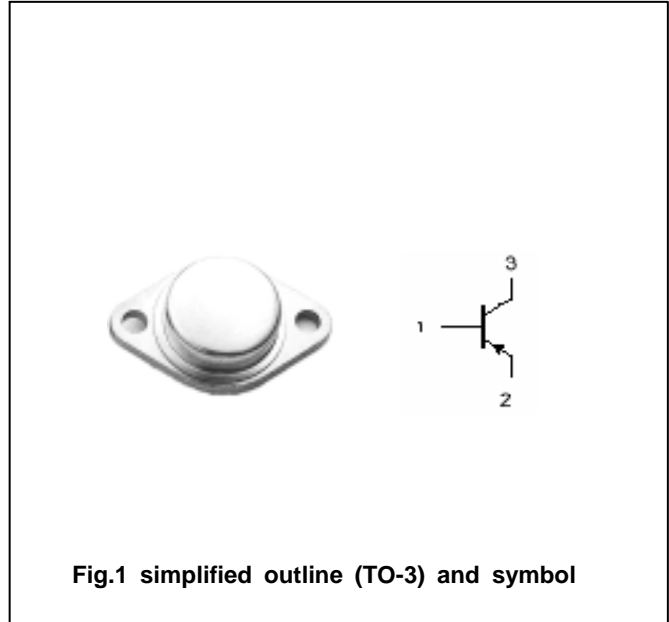


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings( $T_a =$ )

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	$T_C=25$	115	W
$T_j$	Junction temperature		150	
$T_{stg}$	Storage temperature		-65~200	

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	1.52	/W

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## CHARACTERISTICS

T<sub>j</sub>=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO</sub>	Collector-emitter sustaining voltage	I <sub>C</sub> =-0.2A ; I <sub>B</sub> =0	-60			V
V <sub>CER</sub>	Collector-emitter sustaining voltage	I <sub>C</sub> =-0.2A ; R <sub>BE</sub> =100Ω	-70			V
V <sub>CEsat-1</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-4A ; I <sub>B</sub> =-0.4A			-1.1	V
V <sub>CEsat-2</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-10A ; I <sub>B</sub> =-3.3A			-3.0	V
V <sub>BE</sub>	Base-emitter on voltage	I <sub>C</sub> =-4A ; V <sub>CE</sub> =-4V			-1.5	V
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> =-30V ; I <sub>B</sub> =0			-0.7	mA
I <sub>CEX</sub>	Collector cut-off current	V <sub>CE</sub> =-100V ; V <sub>BE(off)</sub> =-1.5V T <sub>C</sub> =150			-1.0 -5.0	mA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =-7V ; I <sub>C</sub> =0			-5.0	mA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =-4A ; V <sub>CE</sub> =-4V	20		70	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =-10A ; V <sub>CE</sub> =-4V	5.0			
I <sub>s/b</sub>	Second breakdown collector current With base forward biased	V <sub>CE</sub> =-40Vdc, t=1.0s, Nonrepetitive	-2.87			A
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =-0.5A ; V <sub>CE</sub> =-10V	2.5			MHz

PACKAGE OUTLINE

