

## Silicon NPN Power Transistors

2SC2923

**DESCRIPTION**

- With TO-202 package
- High  $V_{CEO}$
- Low  $C_{OB}$

**APPLICATIONS**

- For color TV chroma output applications

**PINNING(See Fig.2)**

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

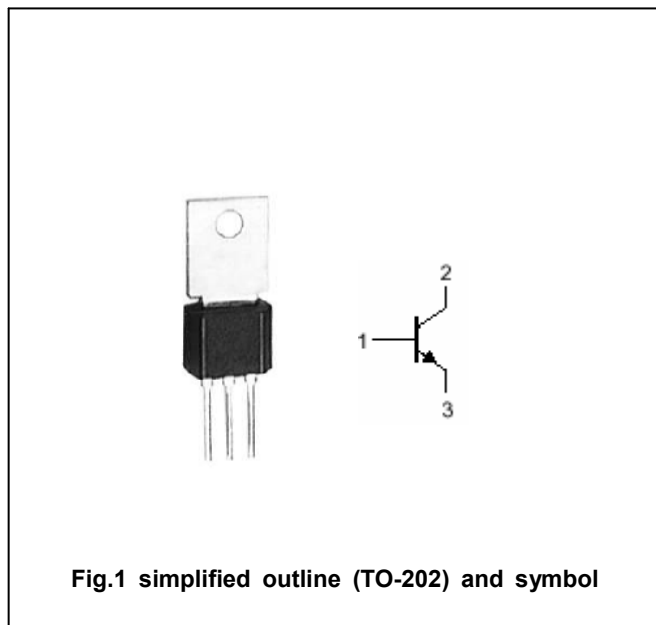


Fig.1 simplified outline (TO-202) and symbol

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	Open emitter	300	V
$V_{CEO}$	Collector-emitter voltage	Open base	300	V
$V_{EBO}$	Emitter-base voltage	Open collector	7	V
$I_C$	Collector current		0.1	A
$I_{CM}$	Collector current-peak		0.2	A
$P_C$	Collector power dissipation	$T_a=25^\circ\text{C}$	1.4	W
		$T_C=25^\circ\text{C}$	15	
$T_j$	Junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		-55~150	$^\circ\text{C}$

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## CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =30mA I <sub>B</sub> =3mA			1.5	V
V <sub>BE</sub>	Base-emitter on voltage	I <sub>C</sub> =30mA ; V <sub>CE</sub> =10V			1.2	V
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =10μA; I <sub>E</sub> =0	300			V
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =100μA; I <sub>B</sub> =0	300			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =10μA; I <sub>C</sub> =0	7			V
h <sub>FE</sub>	DC current gain	I <sub>C</sub> =5mA ; V <sub>CE</sub> =50V	50		250	
C <sub>OB</sub>	Output capacitance	I <sub>E</sub> =0; V <sub>CB</sub> =30V; f=1MHz		2.4		pF
f <sub>T</sub>	Transition frequency	I <sub>E</sub> =20mA ; V <sub>CB</sub> =30V	70			MHz

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PACKAGE OUTLINE

