

**Silicon PNP Power Transistors 2N5605 2N5607 2N5609 2N5611**

**DESCRIPTION**

- With TO-66 package
- Excellent safe operating area
- Low collector saturation voltage

**APPLICATIONS**

- For general-purpose amplifier ; and switching applications

**PINNING(see Fig.2)**

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

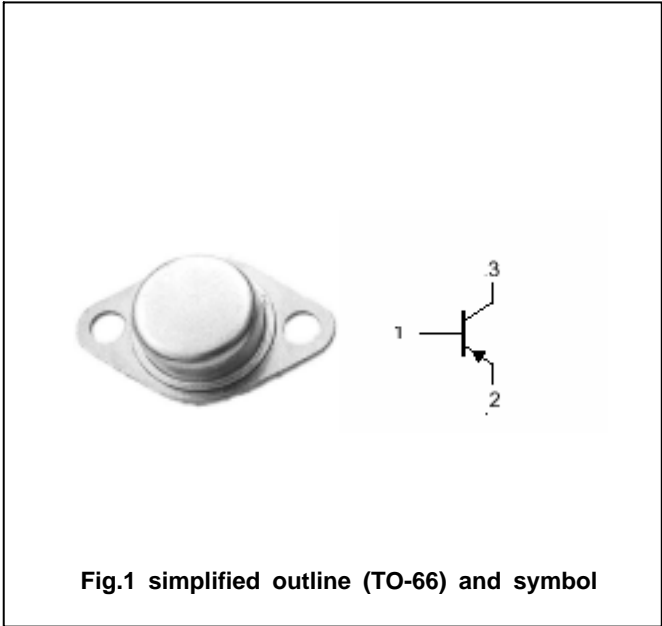


Fig.1 simplified outline (TO-66) and symbol

**Absolute maximum ratings(Ta= )**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CBO</sub>	Collector-base voltage	2N5605	-80	V
		2N5607/5609	-100	
		2N5611	-120	
V <sub>CEO</sub>	Collector-emitter voltage	2N5605	-60	V
		2N5607/5609	-80	
		2N5611	-100	
V <sub>EBO</sub>	Emitter-base voltage	Open collector	-5	V
I <sub>C</sub>	Collector current		-5	A
P <sub>D</sub>	Total power dissipation	T <sub>C</sub> =25	25	W
T <sub>j</sub>	Junction temperature		150	
T <sub>stg</sub>	Storage temperature		-65~150	

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	VALUE	UNIT
R <sub>th j-c</sub>	Thermal resistance junction to case	4.37	/W

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

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE0(SUS)</sub>	Collector-emitter sustaining voltage	2N5605	I <sub>C</sub> =50mA ; I <sub>B</sub> =0	-60			V
		2N5607/5609		-80			
		2N5611		-100			
V <sub>CEsat</sub>	Collector-emitter saturation voltage		I <sub>C</sub> =-1A; I <sub>B</sub> =-0.1A			-0.5	V
V <sub>BE</sub>	Base-emitter on voltage		I <sub>C</sub> =-2.5A ; V <sub>CE</sub> =-5V			-1.5	V
I <sub>CBO</sub>	Collector cut-off current		V <sub>CB</sub> =Rated V <sub>CBO</sub> ; I <sub>E</sub> =0			-0.1	mA
I <sub>CEO</sub>	Collector cut-off current		V <sub>CE</sub> = Rated V <sub>CE0</sub> , I <sub>B</sub> =0			-1.0	mA
I <sub>EBO</sub>	Emitter cut-off current		V <sub>EB</sub> =-5V; I <sub>C</sub> =0			-0.1	mA
h <sub>FE</sub>	DC current gain	2N5605/5609	I <sub>C</sub> =-2.5A ; V <sub>CE</sub> =-5V	70		200	
		2N5607/5611		30		90	
f <sub>T</sub>	Transition frequency	2N5605/5609	I <sub>C</sub> =-0.5A ; V <sub>CE</sub> =-10V	70			MHz
		2N5607/5611		60			

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PACKAGE OUTLINE

