

Silicon NPN Power Transistors

2N5612A

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

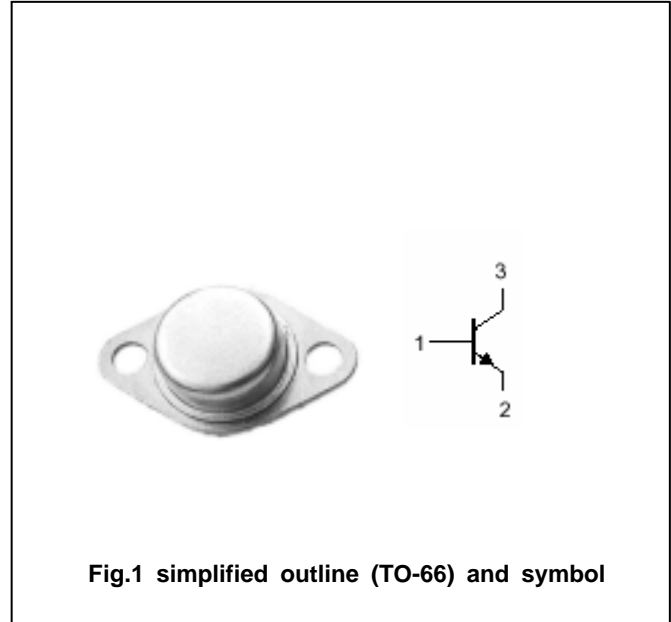


Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings($T_a =$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	120	V
V_{CEO}	Collector-emitter voltage	Open base	100	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		5	A
P_D	Total power dissipation	$T_C=25$	25	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-65~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	4.37	/W

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-emitter sustaining voltage	I _C =50mA ; I _B =0	100			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =1A; I _B =0.1A			0.5	V
V _{BE}	Base-emitter on voltage	I _C =2.5A ; V _{CE} =5V			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =Rated V _{CBO} ; I _E =0			0.1	mA
I _{CEO}	Collector cut-off current	V _{CE} = Rated V _{CEO} , I _B =0			1.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =2.5A ; V _{CE} =5V	30		150	
f _T	Transition frequency	I _C =0.5A ; V _{CE} =10V	60			MHz

PACKAGE OUTLINE

