

Silicon NPN Power Transistors

2N6671 2N6672 2N6673

DESCRIPTION

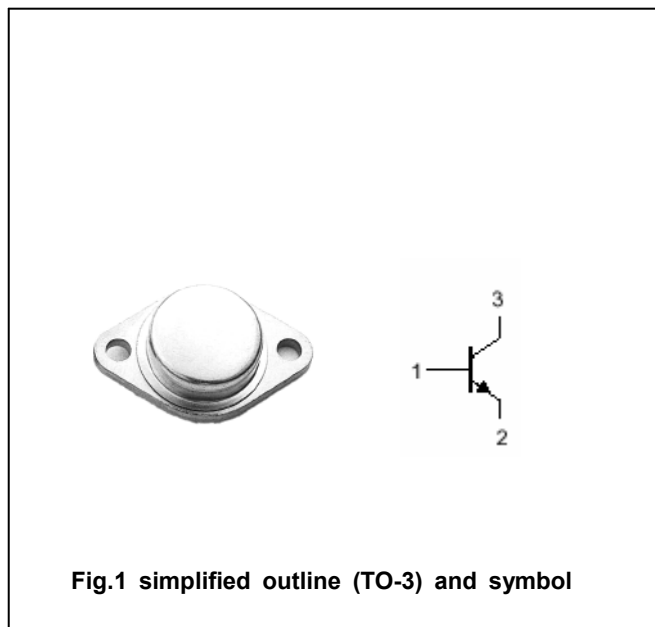
- With TO-3 package
- Low saturation voltage
- Fast switching speed
- High voltage ratings

APPLICATIONS

- Off-line power supplies
- High-voltage inverters
- Switching regulators

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a =$)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2N6671	Open emitter	450	V
		2N6672		550	
		2N6673		650	
V_{CEO}	Collector-emitter voltage	2N6671	Open base	300	V
		2N6672		350	
		2N6673		400	
V_{EBO}	Emitter-base voltage		Open collector	8	V
I_C	Collector current			8	A
I_{CM}	Collector current-peak			10	A
I_B	Base current			4	A
P_D	Total Power Dissipation		$T_C = 25$	150	W
T_j	Junction temperature			200	
T_{stg}	Storage temperature			-65~200	

Silicon NPN Power Transistors**2N6671 2N6672 2N6673****CHARACTERISTICS****T_j=25** unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-emitter sustaining voltage	2N6671	I _C =0.2A ; I _B =0	300			V
		2N6672		350			
		2N6673		400			
V _{CEsat-1}	Collector-emitter saturation voltage		I _C =5A; I _B =1A			1.0	V
V _{CEsat-2}	Collector-emitter saturation voltage		I _C =8A ; I _B =4A			2.0	V
V _{BEsat}	Base-emitter saturation voltage		I _C =5A; I _B =1A			1.6	V
I _{CEV}	Collector cut-off current	2N6671	V _{CE} =450V; V _{BE(off)} =-1.5V			0.1	mA
		2N6672	V _{CE} =550V; V _{BE(off)} =-1.5V				
		2N6673	V _{CE} =650V; V _{BE(off)} =-1.5V				
I _{EBO}	Emitter cut-off current		V _{EB} =8V; I _C =0			2.0	mA
h _{FE}	DC current gain		I _C =5A ; V _{CE} =3V	10		40	
C _{OB}	Output capacitance		I _E =0 ; V _{CB} =10V; f=0.1MHz			300	pF
f _T	Transition frequency		I _C =0.2A ; V _{CE} =10V	15		60	MHz

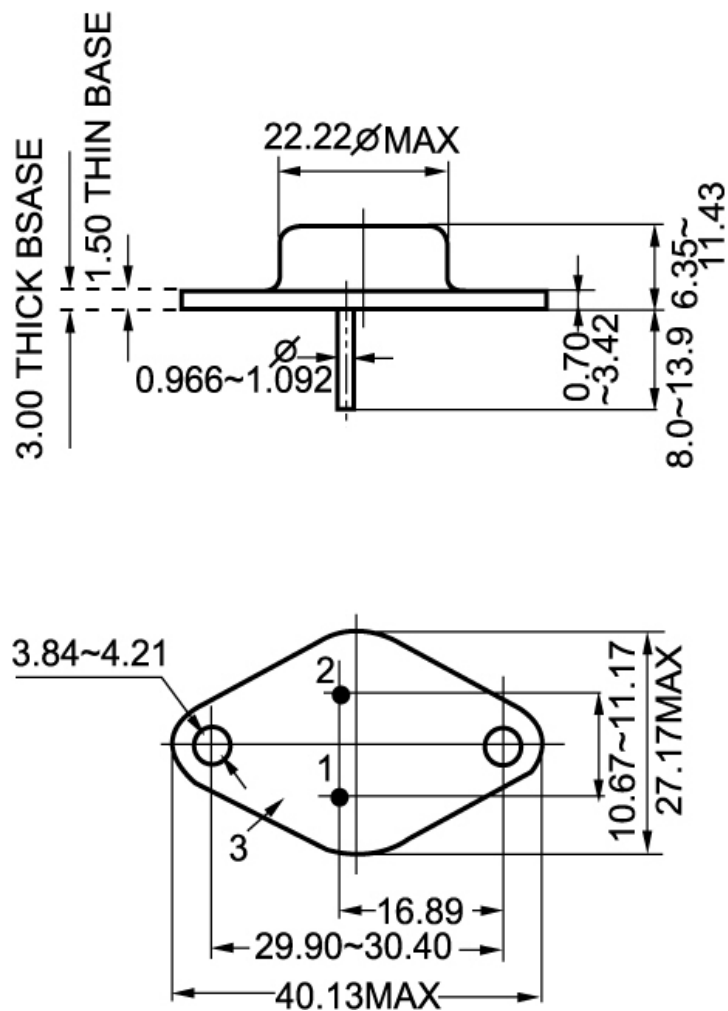
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance junction to case	1.17	/W

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PACKAGE OUTLINE

Fig.2 outline dimensions (unindicated tolerance: $\pm 0.10\text{mm}$)