

Silicon NPN Power Transistors

2SD1433

DESCRIPTION

- With TO-3PH package
- High voltage ,high speed
- Low collector saturation voltage

APPLICATIONS

- Designed for use in TV and CRT horizontal output applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

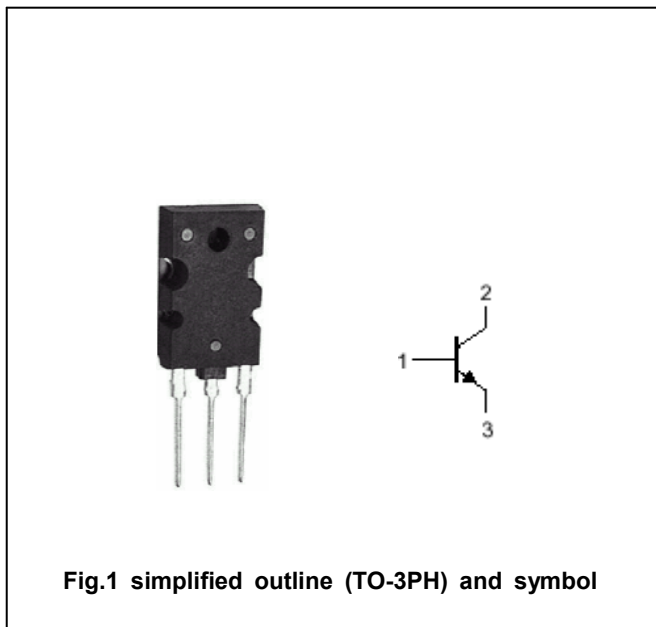


Fig.1 simplified outline (TO-3PH) and symbol

Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	1500	V
V _{CEO}	Collector-emitter voltage	Open base	600	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		7	A
P _D	Total power dissipation	T _C =25°C	80	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-55~150	°C

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CHARACTERISTICS

T_j=25 °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEsat}	Collector-emitter saturation voltage	I _C =6A; I _B =1.2A			5.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =6A; I _B =1.2A			1.5	V
I _{CB0}	Collector cut-off current	V _{CB} =500V; I _E =0			10	μA
I _{EB0}	Emitter cut-off current	V _{EB} =5V; I _C =0			1	mA
h _{FE}	DC current gain	I _C =1A; V _{CE} =5V	8			
f _T	Transition frequency	I _C =0.1A; V _{CE} =10V		3		MHz
C _{OB}	Output capacitance	I _E =0; V _{CB} =10V; f=1.0MHz		165		pF
t _f	Fall time	I _C =6A; I _{B1} =1.2A			1.0	μs

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PACKAGE OUTLINE

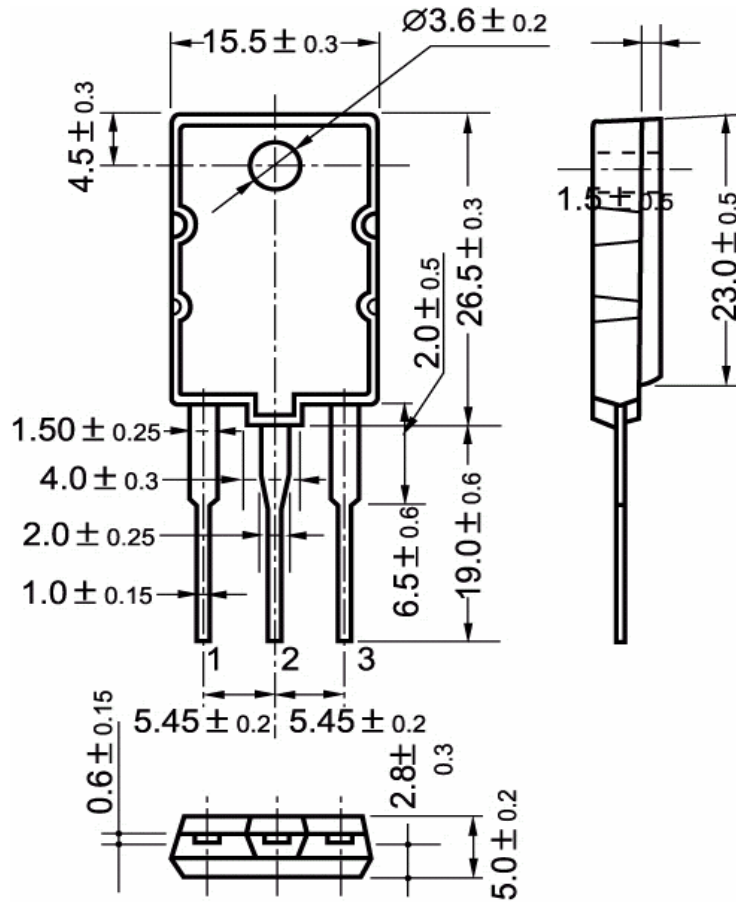


Fig.2 outline dimensions