

Silicon NPN Power Transistors

2SD1577

DESCRIPTION

With TO-3PFa package
 Wide area of safe operation
 High voltage,high speed

APPLICATIONS

Horizontal deflection output applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

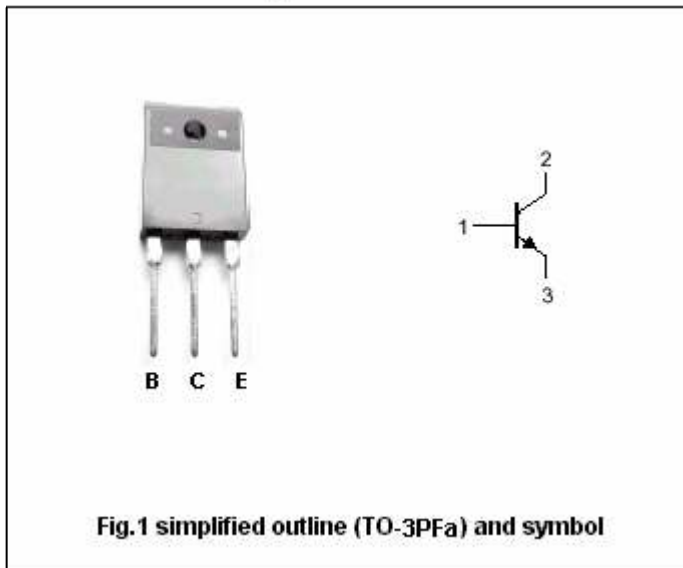


Fig.1 simplified outline (TO-3PFa) and symbol

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	700	V
V _{EBO}	Emitter-base voltage	Open collector	6	V
I _C	Collector current		5	A
I _{CM}	Collector current-peak		17	A
I _B	Base current		3.5	A
P _C	Collector power dissipation	T _C =25°C	100	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-55~150	°C

Silicon NPN Power Transistors

2SD1577

CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEsat}	Collector-emitter saturation voltage	I _C =4.5A ; I _B =2A			2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4.5A ; I _B =2A			1.3	V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA ; I _C =0	6			V
I _{CBO}	Collector cut-off current	V _{CB} =750V; I _E =0			50	μ A
		V _{CB} =1500V; I _E =0			1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			50	μ A
h _{FE}	DC current gain	I _C =2A ; V _{CE} =10V	4		15	
Switching times						
t _{stg}	Storage time	I _C =4A; L _B =10 μ H I _{Bend} =1.5A			11	μ s
t _f	Fall time				1	μ s

PACKAGE OUTLINE

