

Silicon NPN Power Transistors

2SD953

DESCRIPTION

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- With TO-3 package
- Built-in damper diode
- High voltage capability

APPLICATIONS

- Line-operated horizontal deflection output applications

PINNING(see fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

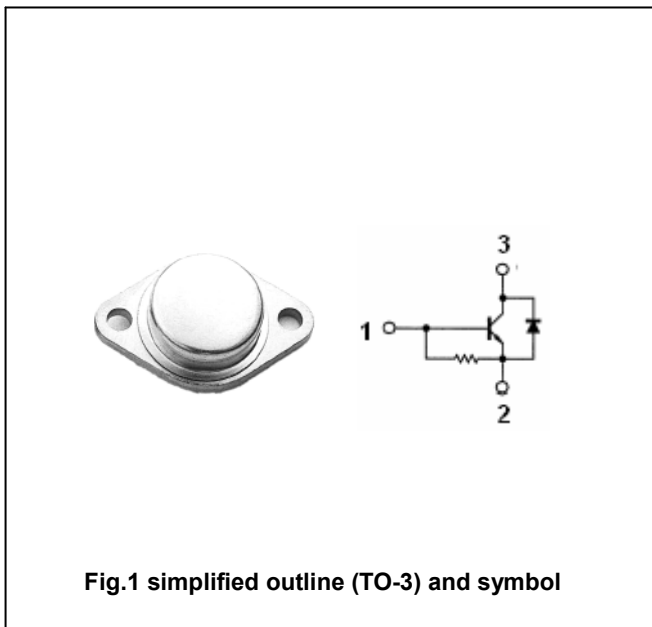


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	1500	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		5	A
I _{CM}	Collector current-peak		7	A
P _T	Total power dissipation	T _C =25□	95	W
T _j	Junction temperature		130	□
T _{stg}	Storage temperature		-65~130	□

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CHARACTERISTICS

T_j=25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =500mA; I _C =0	5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =4.5A; I _B =2A			5.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4.5A; I _B =2A			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =750V; I _E =0			0.1	mA
		V _{CB} =1500V; I _E =0			1.0	
h _{FE-1}	DC current gain	I _C =1A; V _{CE} =5V	8			
h _{FE-2}	DC current gain	I _C =4A; V _{CE} =10V	3			
V _F	Diode forward voltage	I _F =5A		1.6		V
t _f	Fall time	I _C =4A; I _{Bend} =2A; L _B =10μH			0.8	μs
t _s	Storage time				13.5	μs

PACKAGE OUTLINE

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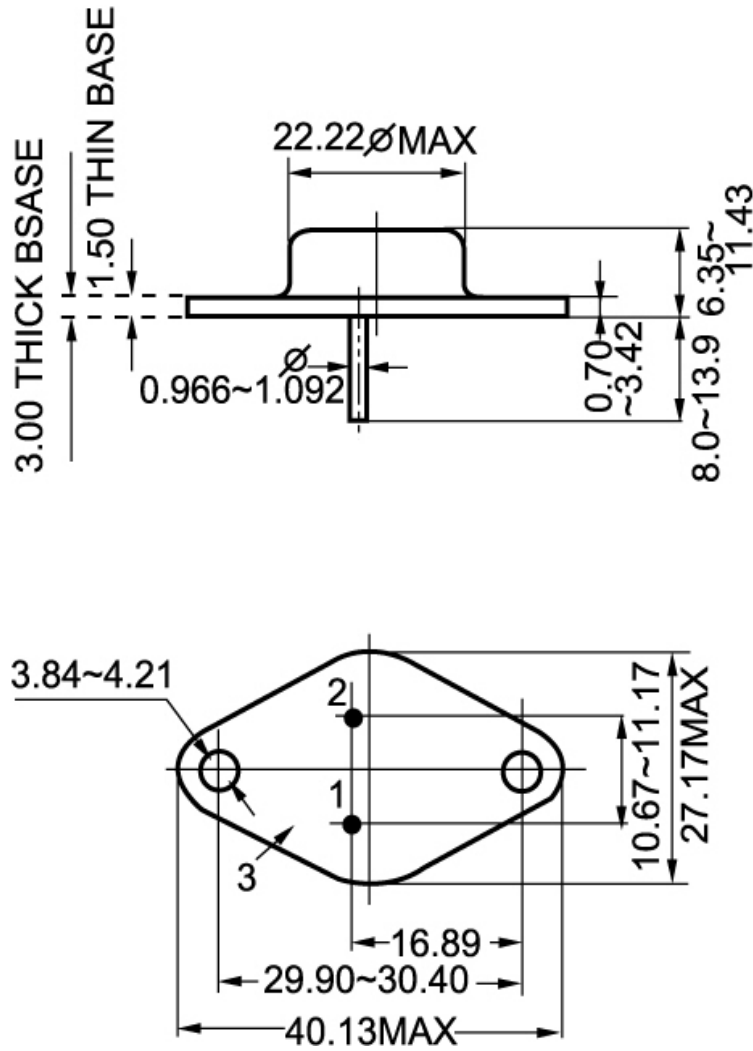


Fig.2 Outline dimensions