

Silicon NPN Power Transistors

2SD5075T

DESCRIPTION

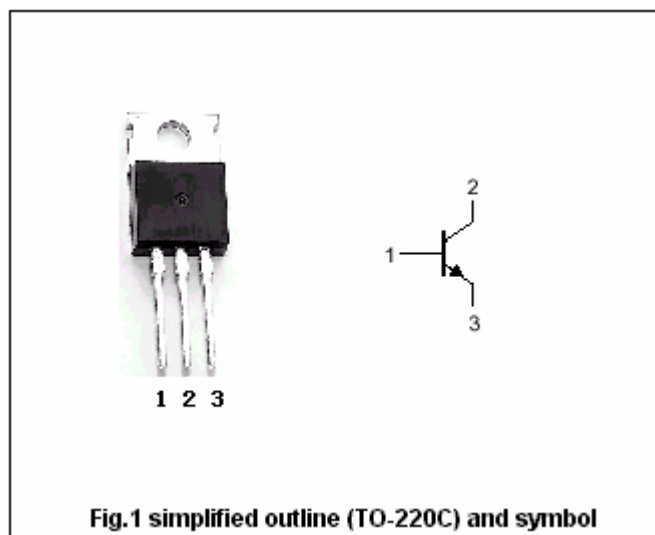
- With TO-220C package
- High breakdown voltage
- High speed switching

APPLICATIONS

- Color TV horizontal output applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

Absolute maximum ratings($T_a=25^\circ$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	1500	V
V_{CEO}	Collector-emitter voltage	Open base	800	V
V_{EBO}	Emitter-base voltage	Open collector	6	V
I_C	Collector current		3.5	A
I_{CM}	Collector current-peak		10	A
P_C	Collector power dissipation	$T_C=25^\circ$	75	W
T_j	Junction temperature		150	$^\circ$
T_{stg}	Storage temperature		-55~150	$^\circ$

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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 =2.5A; I _B =0.8A			8.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =2.5A; I _B =0.8A			1.5	V
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			1.0	mA
I _{CBO}	Collector cut-off current	V _{CB} =800V; I _E =0			10	μA
h _{FE}	DC current gain	I _C =1.5 A ; V _{CE} =5V	8			
f _T	Transition frequency	I _C =0.5 A ; V _{CE} =10V		3		MHz
t _f	Fall time	I _C =3A; I _{B1} =0.8A; I _{B2} =-1.6A V _{CC} =200V; R _L =66.7Ω			0.4	μs

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PACKAGE OUTLINE

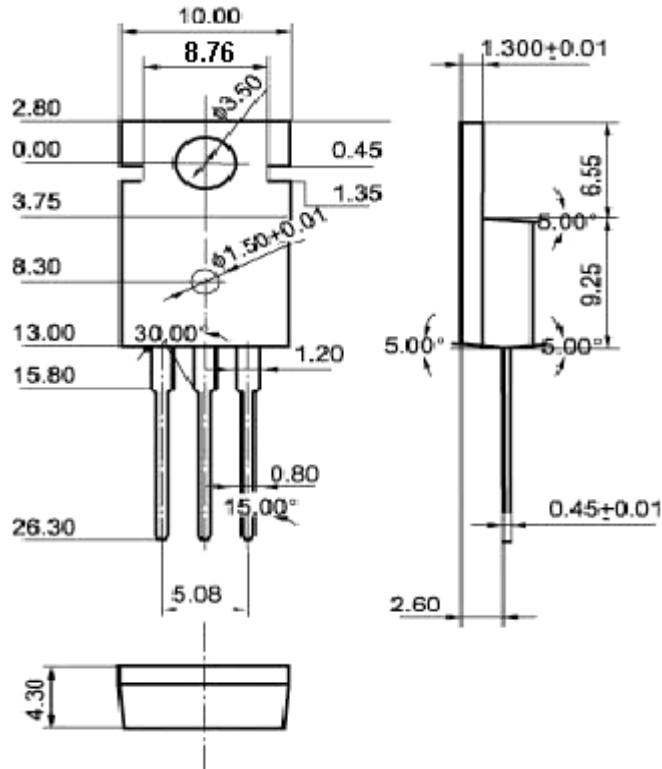


Fig.2 Outline dimensions (unindicated tolerance:±0.10mm)