

Silicon PNP Power Transistors

2SB1226

DESCRIPTION

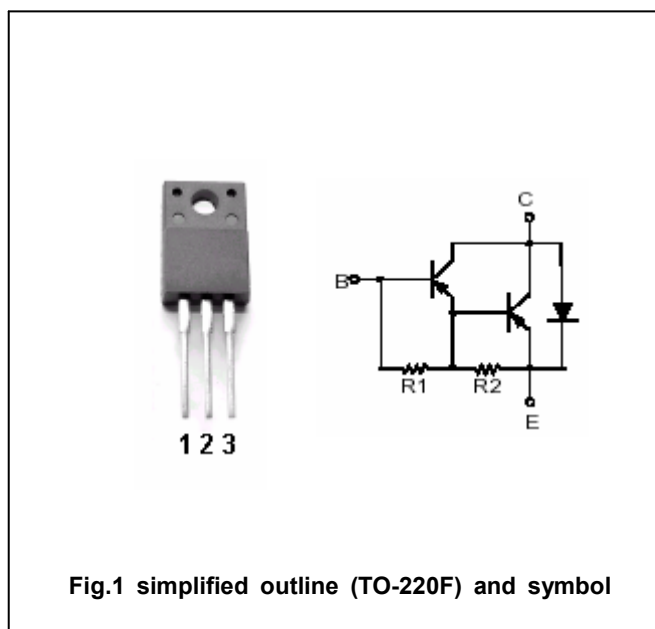
- With TO-220F package
- Complement to type 2SD1828
- High DC current gain.
- Large current capacity and wide ASO.
- DARLINGTON

APPLICATIONS

- Motor drivers,printer hammer drivers,relay drivers,voltage regulator control.

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

Absolute maximum ratings ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-110	V
V_{CEO}	Collector-emitter voltage	Open base	-100	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-3	A
I_{CM}	Collector current-peak		-5	A
P_C	Collector dissipation	$T_C=25^\circ\text{C}$	20	W
			2	
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-5mA; I_E=0$	-110			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-50mA; R_{BE}=\infty$	-100			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=-1.5A; I_B=-3mA$		-1.0	-1.5	V
V_{BEsat}	Base-emitter saturation voltage	$I_C=-1.5A; I_B=-3mA$			-2.0	V
I_{CBO}	Collector cut-off current	$V_{CB}=-80V; I_E=0$			-0.1	mA
I_{EBO}	Emitter cut-off current	$V_{EB}=-5V; I_C=0$			-3.0	mA
h_{FE}	DC current gain	$I_C=-1.5A; V_{CE}=-3V$	1500	4000		
f_T	Transition frequency	$I_C=-1.5A; V_{CE}=-5V$		20		MHz

Switching times

t_{on}	Turn-on time	$I_C=500I_{B1}=-500I_{B2}=-1A$ $V_{CC}=-50V, R_L=50\Omega$		0.7		μs
t_s	Storage time			2.4		μs
t_f	Fall time			1.2		μs

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PACKAGE OUTLINE

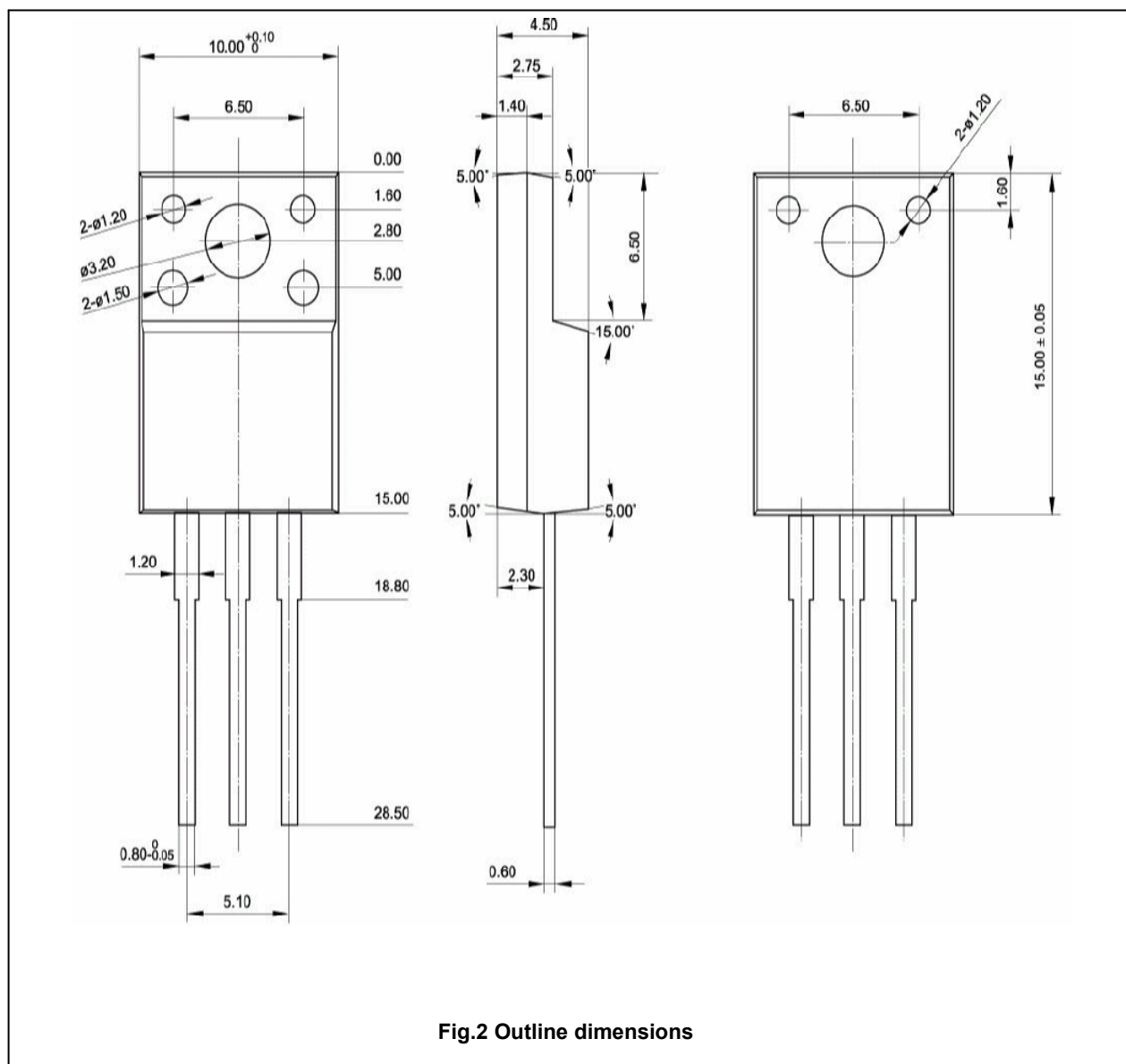


Fig.2 Outline dimensions