Silicon NPN Darlington Power Transistors 2SD2495

DESCRIPTION

- With TO-220F package
- Complement to type 2SB1626

APPLICATIONS

- For audio,series regulator and general purpose applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

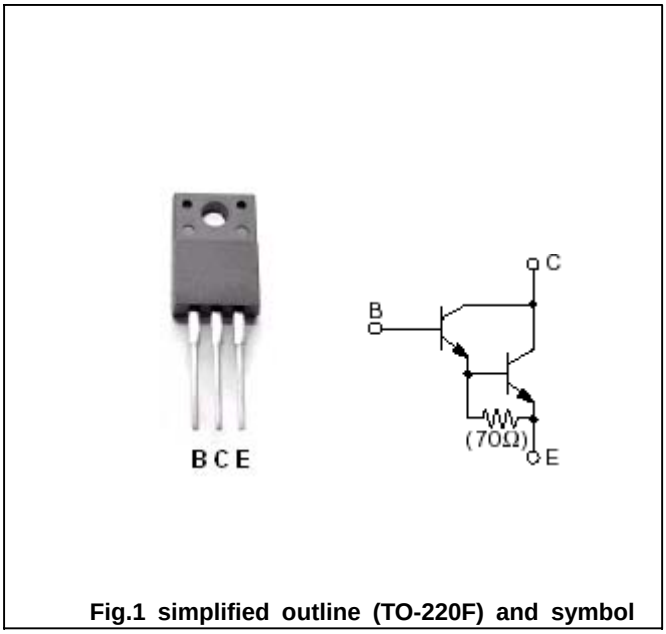

Fig.1 simplified outline (TO-220F) and symbol

Absolute maximum ratings (Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	110	V
V_{CEO}	Collector-emitter voltage	Open base	110	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		6	A
I_B	Base current		1	A
P_C	Collector dissipation	T_C=25℃	30	W
T_j	Junction temperature		150	℃
T_{stg}	Storage temperature		-55~150	℃

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CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V_{CEO}	Collector-emitter breakdown voltage	I_C=50mA ;I_B=0	110			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=5A; I_B=5mA			2.5	V
V_{BEsat}	Emitter-base saturation voltage	I_C=5A; I_B=5mA			3.0	V
I_{CBO}	Collector cut-off current	V_{CB}=110V; I_E=0			0.1	mA
I_{EBO}	Emitter cut-off current	V_{EB}=5V; I_C=0			0.1	mA
h_{FE}	DC current gain	I_C=5A ; V_{CE}=4V	5000			
f_T	Transition frequency	I_C=0.5A ; V_{CE}=12V		60		MHz
C_{OB}	Collector output capacitance	f=1MHz;V_{CB}=10V		55		pF
Switching times						
t_{on}	Turn-on time	I_C=5A; I_{B1}=-I_{B2}=5mA V_{CC}=30V ,R_L=6Ω		0.8		μs
t_s	Storage time			6.2		μs
t_f	Fall time			1.1		μs

◆ h_{FE} Classifications

O	p	Y
5000-12000	6500-20000	15000-30000

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PACKAGE OUTLINE

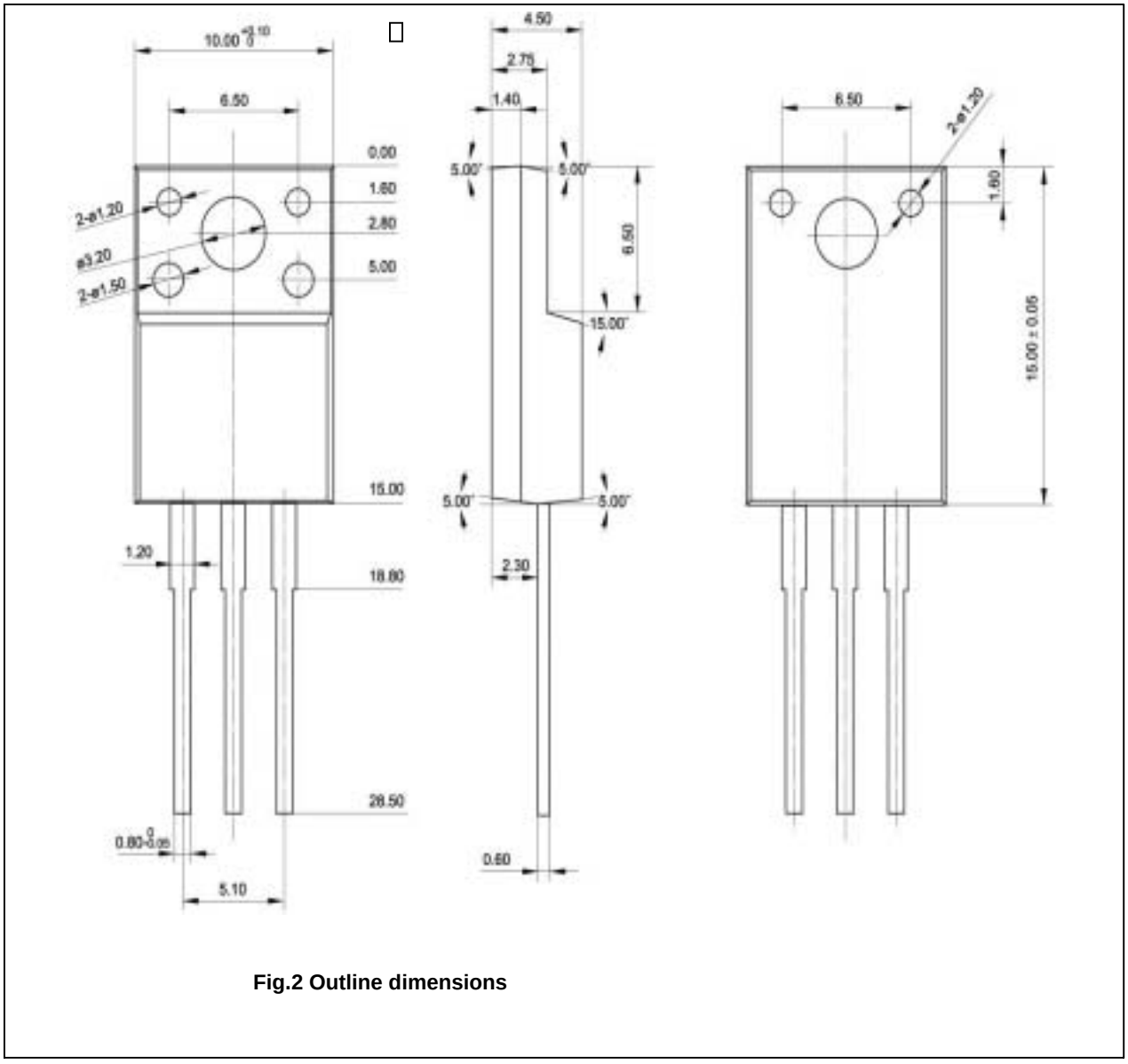

Fig.2 Outline dimensions