DESCRIPTION

- With TO-220Fa package
- DARLINGTON
- Complement to type 2SB1340
- High DC current gain

APPLICATIONS

- Low frequency power amplification

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

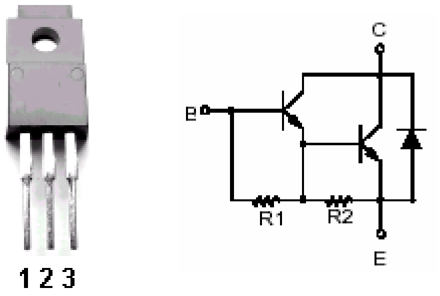

Fig.1 simplified outline (TO-220Fa) and symbol

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	120	V
V_{CEO}	Collector -emitter voltage	Open base	120	V
V_{EBO}	Emitter-base voltage	Open collector	6	V
I_C	Collector current		6	A
I_{CM}	Collector current-peak		10	A
P_C	Collector power dissipation	T_C=25℃	30	W
		T_a=25℃	2	
T_j	Junction temperature		150	℃
T_{stg}	Storage temperature		-55~150	℃

CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	I_C=50μA; I_E=0	120			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	I_C=5mA;I_B=0	120			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=3A ;I_B=6mA			1.5	V
I_{CBO}	Collector cut-off current	V_{CB}=120V; I_E=0			100	μA
I_{EBO}	Emitter cut-off current	V_{EB}=5V; I_C=0			3.0	mA
h_{FE}	DC current gain	I_C=2A ; V_{CE}=3V	2000		20000	
f_T	Transition frequency	I_E=-0.2A ; V_{CE}=5V;f=10MHz		40		MHz
C_{OB}	Output capacitance	I_E=0 ; V_{CB}=10V;f=1MHz		50		pF

PACKAGE OUTLINE

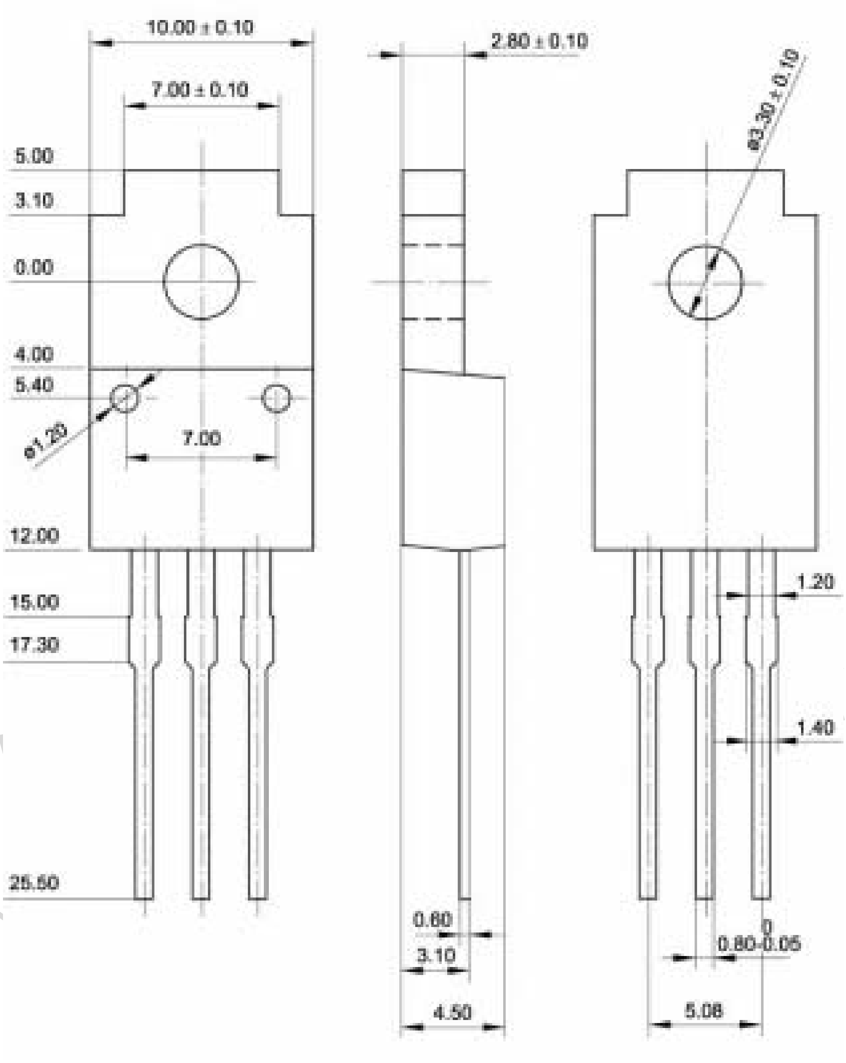

Fig.2 Outline dimensions (unindicated tolerance: ±0.15 mm)