DESCRIPTION

- With TO-220Fa package
- Low collector saturation voltage
- Wide area of safe operation

APPLICATIONS

- For audio frequency power applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

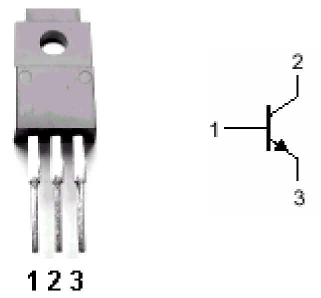

Fig.1 simplified outline (TO-220Fa) and symbol

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2SD1265	Open emitter	60	V
		2SD1265A		80	
V_{CEO}	Collector-emitter voltage	2SD1265	Open base	60	V
		2SD1265A		80	
V_{EBO}	Emitter-base voltage		Open collector	8	V
I_C	Collector current (DC)			4	A
I_{CM}	Collector current-peak			6	A
I_B	Base current			1	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
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	2SD1265	I_C=0.2A , L=25mH	60			V
		2SD1265A		80			
V_{CEsat}	Collector-emitter saturation voltage		I_C=2A; I_B=0.4A			1.0	V
V_{BE}	Base-emitter on voltage		I_C=1A ; V_{CE}=3V			1.2	V
I_{CBO}	Collector cut-off current		V_{CB}=20V; I_E=0			30	µA
I_{EBO}	Emitter cut-off current		V_{EB}=8V; I_C=0			1	mA
h_{FE-1}	DC current gain		I_C=0.1A ; V_{CE}=3V	40			
h_{FE-2}	DC current gain		I_C=1A ; V_{CE}=3V	30		160	

◆ **h_{FE-2} Classifications**

Q	P	O
30-60	500-100	80-160

PACKAGE OUTLINE

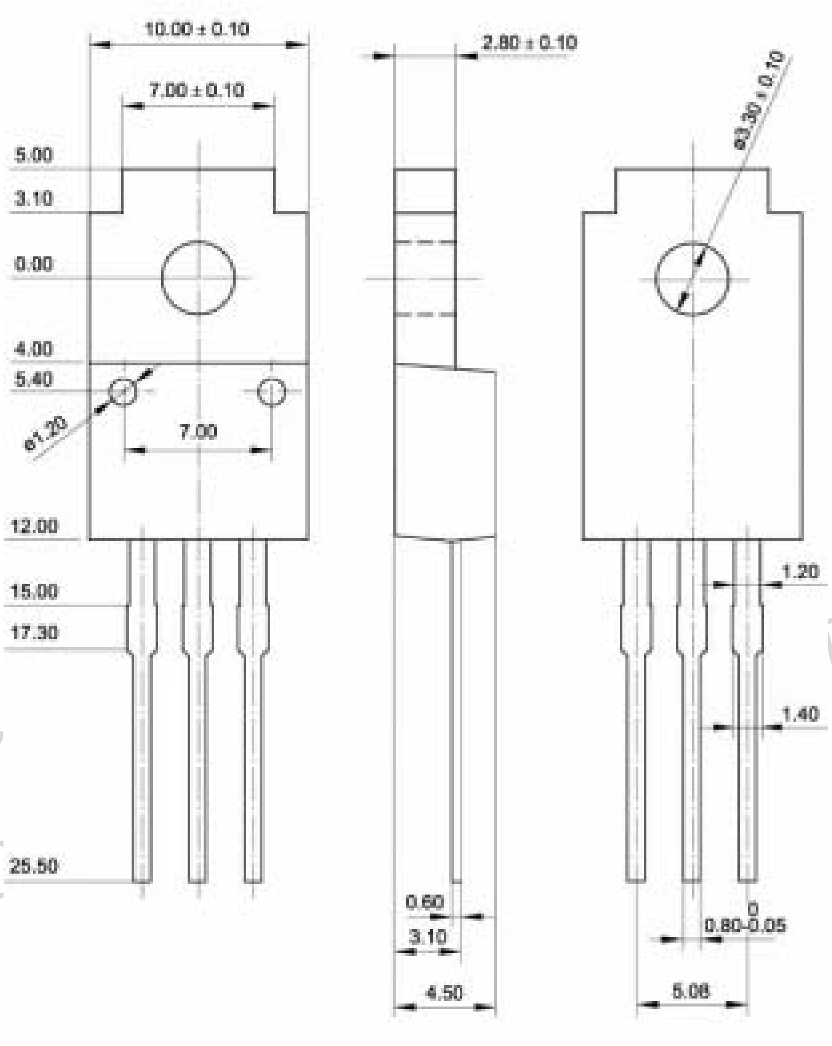

Fig.2 Outline dimensions (unindicated tolerance:±0.15 mm)