

Silicon PNP Power Transistors

2SB775

DESCRIPTION

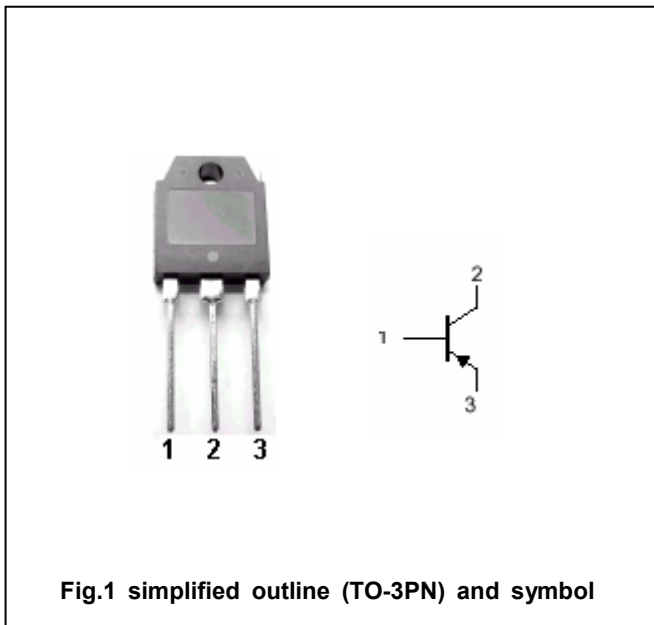
- With TO-3PN package
- Complement to type 2SD895
- Wide area of safe operation
- Large current capability

APPLICATIONS

- 85V/6A, AF 35W output applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-100	V
V_{CEO}	Collector-emitter voltage	Open base	-85	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current (DC)		-6	A
I_{CM}	Collector current-peak		-10	A
P_C	Collector power dissipation	$T_C=25$	60	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-40~150	

Silicon PNP Power Transistors

2SB775

CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-50mA ; R _{BE} =∞	-85			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-5mA ; I _E =0	-100			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-5mA ; I _C =0	-6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-4A ; I _B =-0.4A		-1.4	-2.0	V
V _{BE}	Base-emitter on voltage	I _C =-1A ; V _{CE} =-5V			-1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-40V I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-4V ; I _C =0			-0.1	mA
h _{FE-1}	DC current gain	I _C =-1A ; V _{CE} =-5V	60		200	
h _{FE-2}	DC current gain	I _C =-3A ; V _{CE} =-5V	20			
f _T	Transition frequency	I _C =-1A ; V _{CE} =-5V		18		MHz
C _{OB}	Collector output capacitance	f=1MHz ; V _{CB} =10V		160		pF

Switching times

t _{on}	Turn-on time	I _C =-1.0A ; I _{B1} =-I _{B2} =-0.1A R _L =20Ω ; V _{CC} =-20V		0.12		μs
t _{stg}	Storage time			1.29		μs
t _f	Fall time			0.36		μs

◆ h_{FE-1} Classifications

D	E
60-120	100-200

2SB775

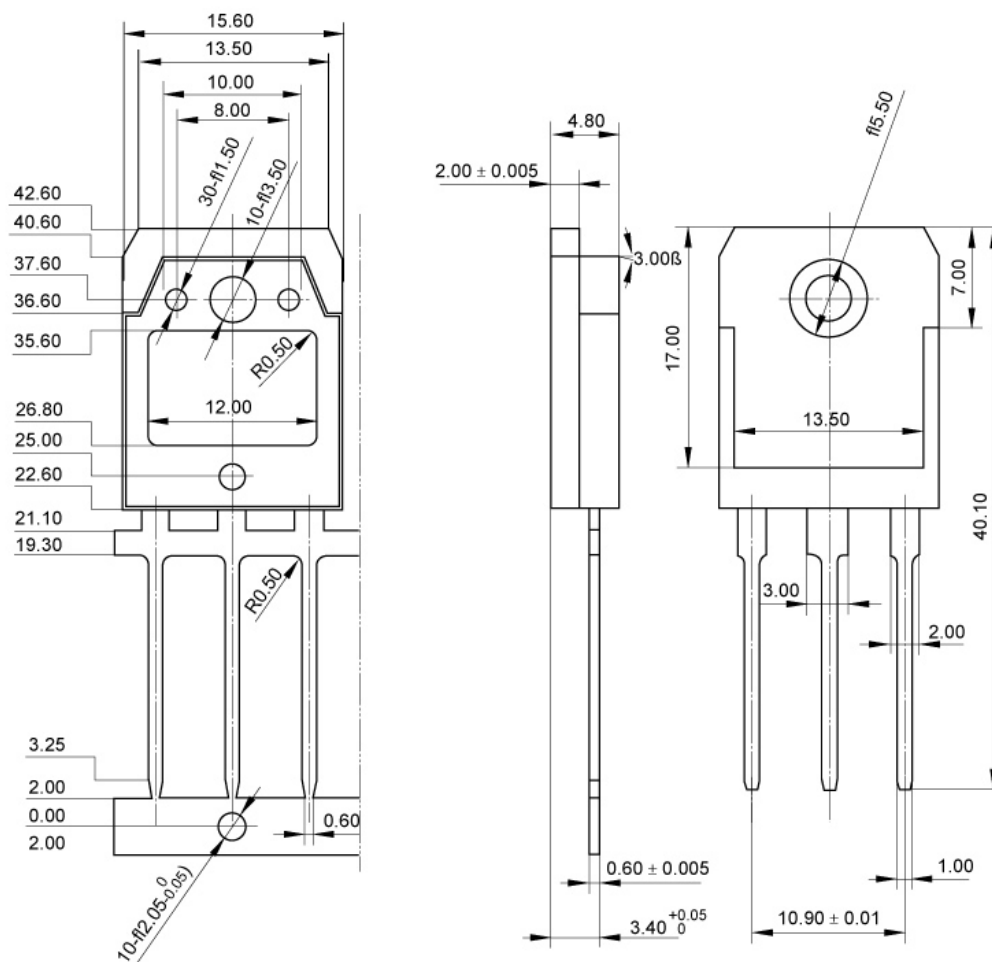


Fig.2 outline dimensions