

Silicon NPN Power Transistors

2SC1079 2SC1080

DESCRIPTION

- With TO-3 package
- Complement to type 2SA679/680
- High power dissipation

APPLICATIONS

- For audio power amplifier applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

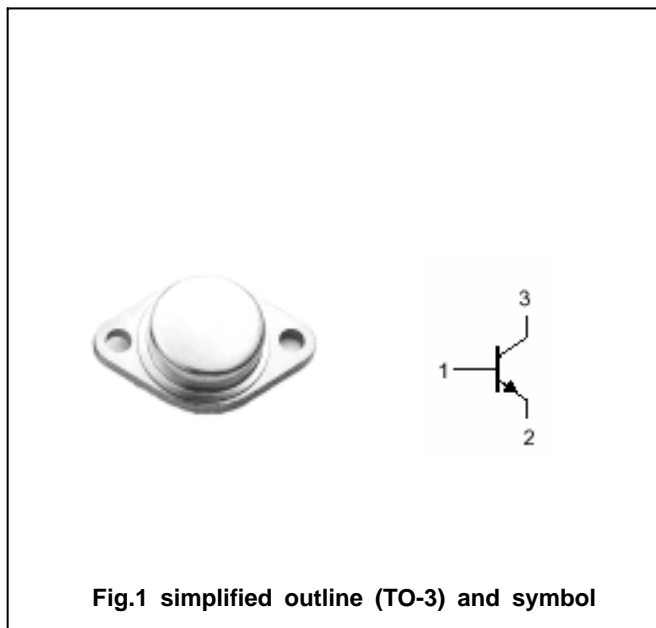


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	2SC1079	120	V
		2SC1080	100	
V _{CEO}	Collector-emitter voltage	2SC1079	120	V
		2SC1080	100	
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		12	A
I _E	Emitter current		-12	A
P _C	Collector power dissipation	T _C =25	100	W
T _j	Junction temperature		150	
T _{stg}	Storage temperature		-65~150	

Silicon NPN Power Transistors

2SC1079 2SC1080

CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	2SC1079	I _C =0.1A ; I _B =0			V
		2SC1080				
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10mA ; I _C =0	5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =10A ; I _B =1A			3.0	V
V _{BE}	Base-emitter on voltage	I _C =10A ; V _{CE} =5V			2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =50V ; I _E =0			0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V ; I _C =0			0.1	mA
h _{FE-1}	DC current gain	I _C =2A ; V _{CE} =5V	40		140	
h _{FE-2}	DC current gain	I _C =7A ; V _{CE} =5V	15			
f _T	Transition frequency	I _C =2A ; V _{CE} =5V		4		MHz

◆ h_{FE-1} Classifications

R	Y
40-80	70-140

Silicon NPN Power Transistors

2SC1079 2SC1080

PACKAGE OUTLINE

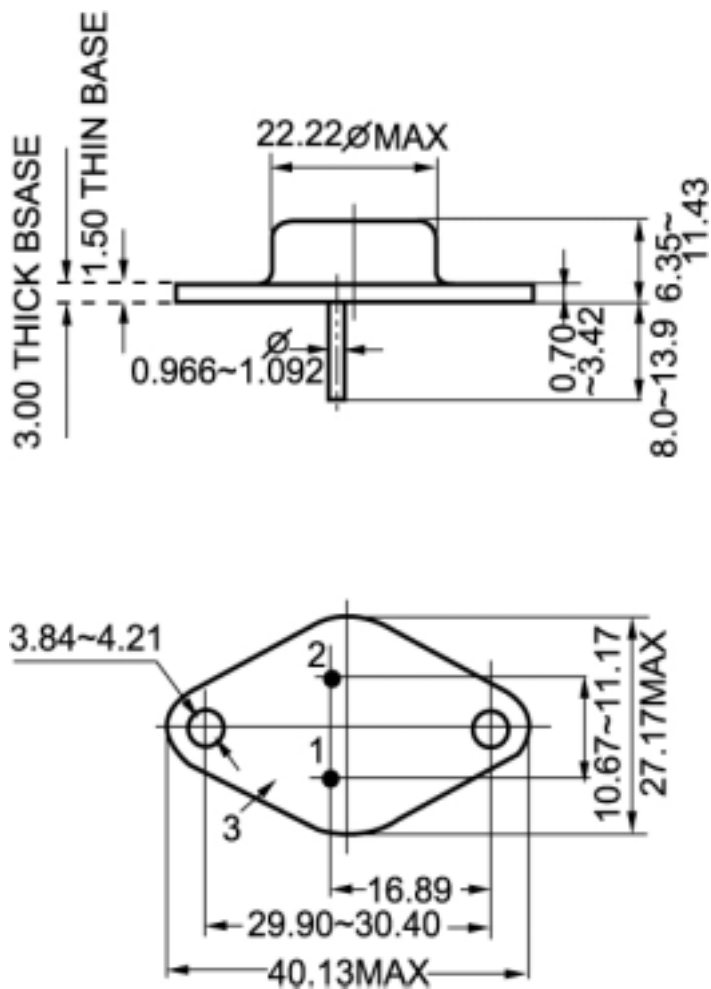


Fig.2 outline dimensions (unindicated tolerance: ± 0.1 mm)