Silicon PNP Power Transistors 2N5867 2N5868

DESCRIPTION

- With TO-3 package
- Low collector saturation voltage

APPLICATIONS

- For medium-speed switching and amplifier applications

PINNING

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	2N5867	Open emitter	-60	V
		2N5868		-80	
V_{CEO}	Collector-emitter voltage	2N5867	Open base	-60	V
		2N5868		-80	
V_{EBO}	Emitter-base voltage		Open collector	-5	V
I_C	Collector current			-5	A
P_D	Total Power Dissipation		T_C=25℃	87.5	W
T_j	Junction temperature			150	℃
T_{stg}	Storage temperature			-65~200	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j\text{-}c}$	Thermal resistance junction to case	1.17	℃/W

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CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	2N5867	I_C=-0.1A ;I_B=0	-60			V
		2N5868		-80			
V_{CEsat}	Collector-emitter saturation voltage		I_C=-5A;I_B=-1A			-1.0	V
V_{BEsat}	Base-emitter saturation voltage		I_C=-5A; I_B=-1A			-1.5	V
I_{CBO}	Collector cut-off current		V_{CB}=ratedV_{CBO}; I_B=0			-1.0	mA
I_{CEO}	Collector cut-off current	2N5867	V_{CE}=-30V; I_B=0			-2.0	mA
		2N5868	V_{CE}=-40V; I_B=0				
I_{EBO}	Emitter cut-off current		V_{EB}=-5V; I_C=0			-1.0	mA
h_{FE}	DC current gain		I_C=-1.5A ; V_{CE}=-4V	20		100	
f_T	Trainsistion frequency		I_C=-0.5A ; V_{CE}=-10V;f=1MHz	4			MHz

PACKAGE OUTLINE

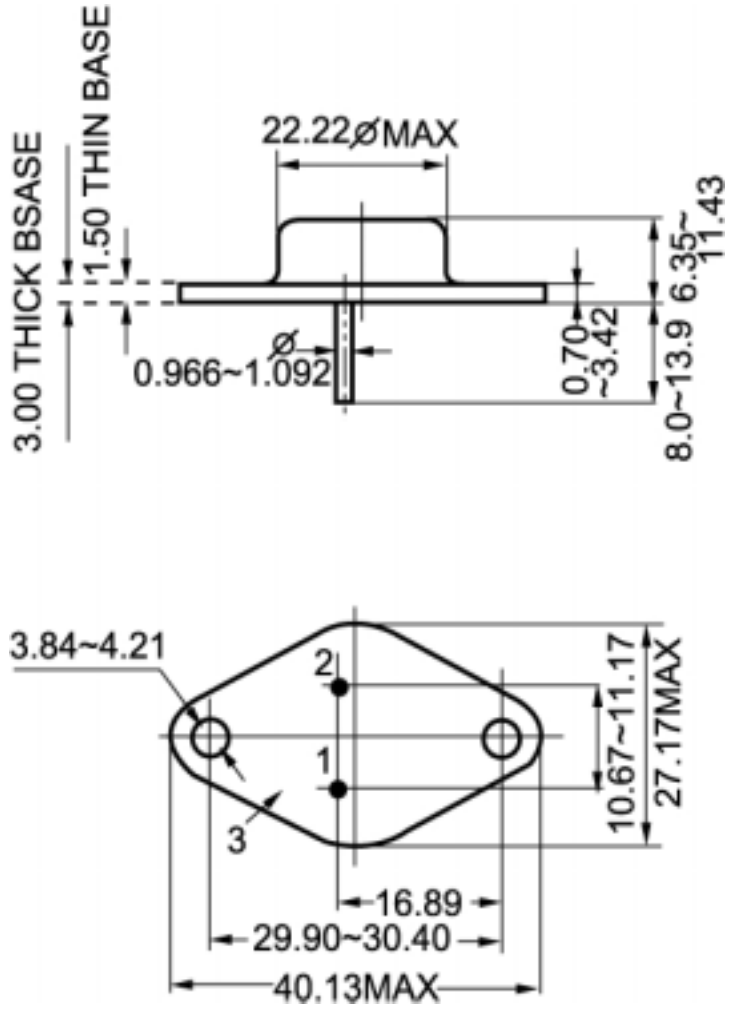


Fig.2 outline dimensions (unindicated tolerance:±0.10mm)