DESCRIPTION

- With TO-3 package
- Complement to type MJ15003G
- Excellent safe operating area

APPLICATIONS

- For high power audio,disk head positioners and other linear 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	Open emitter	-140	V
V_{CEO}	Collector-emitter voltage	Open base	-140	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-20	A
I_B	Base current		-5	A
I_E	Emitter current		25	A
P_D	Total power dissipation	T_C=25℃	250	W
T_j	Junction temperature		200	℃
T_{stg}	Storage temperature		-65~200	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal resistance junction to case	0.7	℃/W

CHARACTERISTICS Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	I_C=-0.2A ;I_B=0	-140			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=-5A; I_B=-0.5A			-1.0	V
V_{BE}	Base-emitter on voltage	I_C=-5A ; V_{CE}=-2V			-2.0	V
I_{CEO}	Collector cut-off current	V_{CE}=-140V; I_B=0			-0.25	mA
I_{CEX}	Collector cut-off current	V_{CE}=-140V; $V_{BE(off)}$=-1.5V T_C=150℃			-0.1 -2.0	mA
I_{EBO}	Emitter cut-off current	V_{EB}=-5V; I_C=0			-0.1	mA
h_{FE}	DC current gain	I_C=-5A ; V_{CE}=-2V	25		150	
$I_{s/b}$	Second breakdown collector current With base forward biased	V_{CE}=-50Vdc,t=1 s, Nonrepetitive	-5			A
		V_{CE}=-100Vdc,t=1 s, Nonrepetitive	-1			
C_{OB}	Output capacitance	I_E=0 ; V_{CB}=-10V;f=1.0MHz			1000	pF
f_T	Transition frequency	I_C=-0.5A ; V_{CE}=-10V;f=0.5MHz	2			MHz

PACKAGE OUTLINE

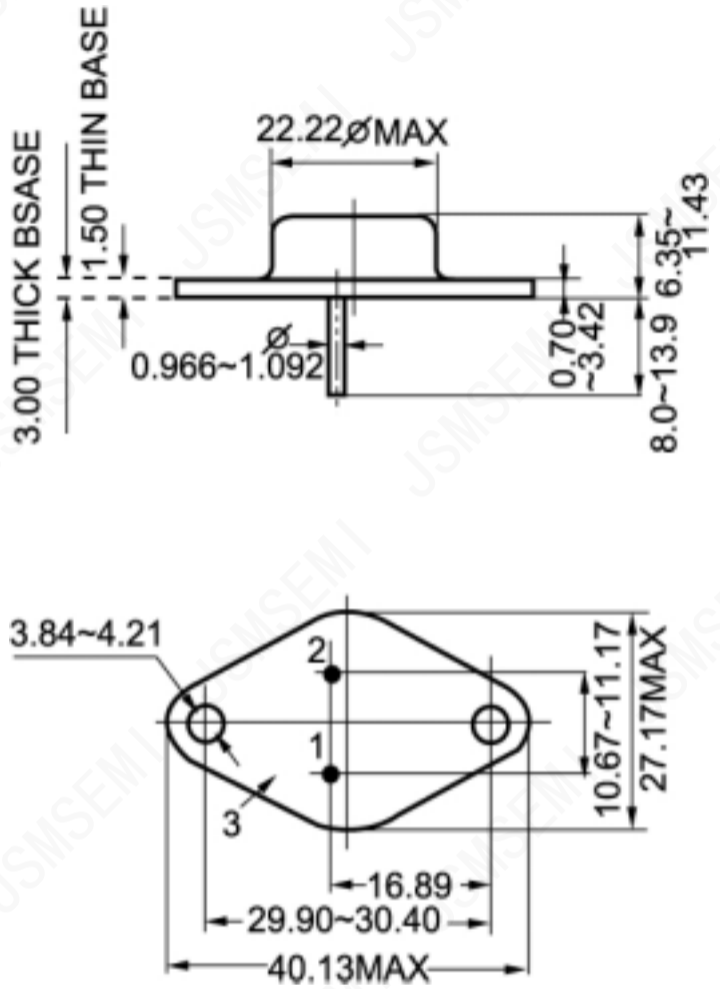

Fig.2 outline dimensions (unindicated tolerance:±0.1mm)