2N3055

DESCRIPTION

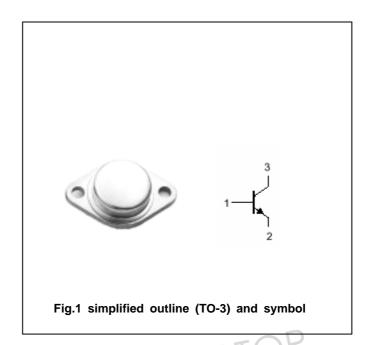
- · With TO-3 package
- · Complement to type MJ2955
- DC Current Gain -h_{FE} = 20–70 @ I_C = 4 Adc
- Collector–Emitter Saturation Voltage V_{CE(sat)} = 1.1 Vdc (Max) @ I_C = 4 Adc
- · Excellent Safe Operating Area

APPLICATIONS

 Designed for general–purpose switching and amplifier applications.

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector



Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	100	V
V _{CEO}	Collector-emitter voltage	Open base	60	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
Ic	Collector current		15	А
I _B	Base current		7	А
Pc	Collector power dissipation	T _C =25	115	W
T _j	Junction temperature		150	
T _{stg}	Storage temperature		-65~200	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance junction to case		/W

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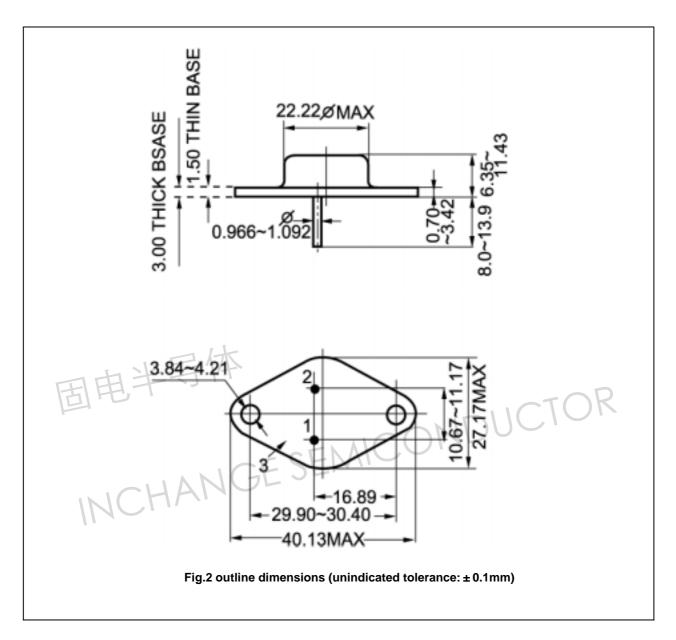
CHARACTERISTICS

Tj=25 unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =0.2A ;I _B =0	60			V	
V_{CER}	Collector-emitter sustaining voltage	I _C =0.2A ;R _{BE} =100	70			V	
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =4A ;I _B =0.4A			1.1	V	
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =10A ;I _B =3.3A			3.0	V	
V_{BE}	Base-emitter on voltage	I _C =4A ; V _{CE} =4V			1.5	V	
I _{CEO}	Collector cut-off current	V _{CE} =30V; I _B =0			0.7	mA	
I _{CEX}	Collector cut-off current	V _{CE} =100V; V _{BE(off)} =1.5V T _C =150			1.0 5.0	mA	
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			5.0	mA	
h _{FE-1}	DC current gain	I _C =4A ; V _{CE} =4V	20		70		
h _{FE-2}	DC current gain	I _C =10A; V _{CE} =4V	5.0	CI	\bigcirc r		
I _{s/b}	Second breakdown collector current With base forward biased	V _{CE} =40Vdc,t=1.0s, Nonrepetitive	2.87			А	
f⊤	Transition frequency	I _C =0.5A; V _{CE} =10V	2.5			MHz	

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PACKAGE OUTLINE



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