2SC3281

#### **DESCRIPTION**

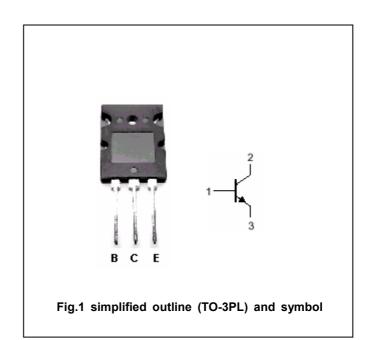
- ·With TO-3PL package
- ·Complement to type 2SA1302

#### **APPLICATIONS**

- ·Power amplifier applications
- ·Recommended for 100W high fidelity audio frequency amplifier output stage

#### **PINNING**

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



## Absolute maximum ratings(Ta=25□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CBO</sub>	Collector-base voltage	Open emitter	200	V
V <sub>CEO</sub>	Collector-emitter voltage	Open base	200	V
V <sub>EBO</sub>	Emitter-base voltage	e Open collector		V
Ic	Collector current		15	Α
I <sub>B</sub>	Base current		1.5	Α
Pc	Collector power dissipation	T <sub>C</sub> =25□	150	W
T <sub>j</sub>	Junction temperature		150	
T <sub>stg</sub>	Storage temperature		-55~150	

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#### **CHARACTERISTICS**

Tj=25□ unless otherwise specified

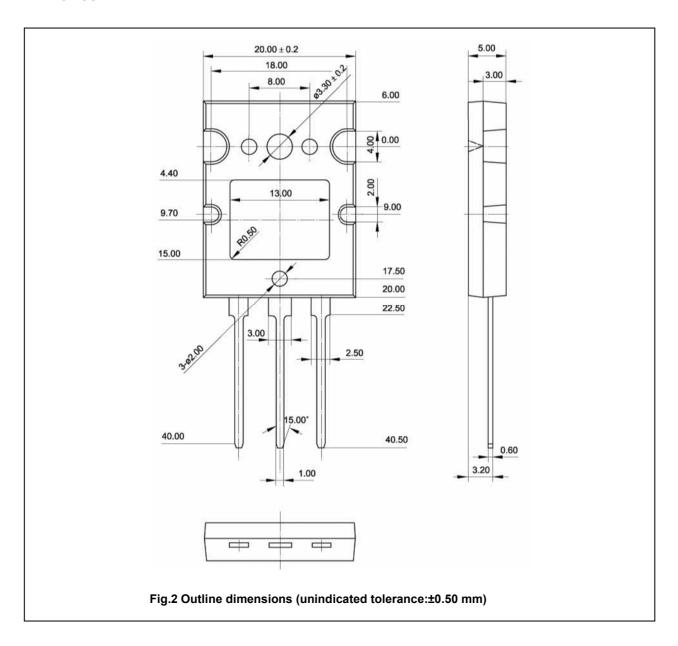
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =50mA ;I <sub>B</sub> =0	200			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =8A ;I <sub>B</sub> =0.8A			2.5	V
$V_{BE}$	Base-emitter voltage	I <sub>C</sub> =8A ; V <sub>CE</sub> =5V			1.5	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =200V; I <sub>E</sub> =0			5	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V; I <sub>C</sub> =0			5	μΑ
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =1A; V <sub>CE</sub> =5V	55		160	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =8A ; V <sub>CE</sub> =5V	35			
f⊤	Transition frequency	I <sub>C</sub> =1A ; V <sub>CE</sub> =5V		25		MHz
Сов	Collector output capacitance	f=1MHz;V <sub>CB</sub> =10V		270		pF

# ♦ h<sub>FE-1</sub> classifications

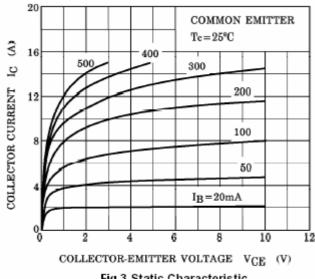
R	0
55-110	80-160

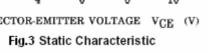
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#### PACKAGE OUTLINE



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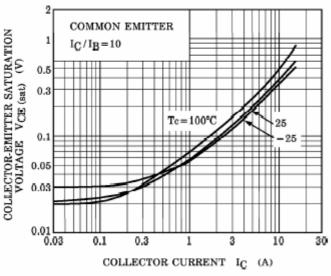


Fig.5 Collector-Emitter Saturation Voltage

