### **Silicon PNP Power Transistors**

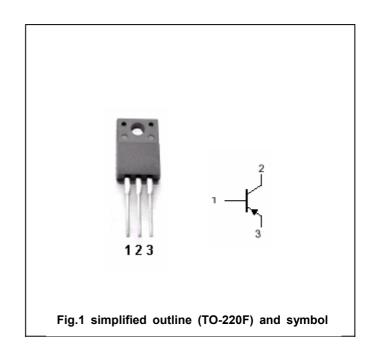
2SB1565

#### **DESCRIPTION**

- ·With TO-220F package
- ·Excellent DC current gain characteristics
- ·Low collector saturation voltage
- ·Wide SOA (safe operating area)
- ·Complement to type 2SD2394

#### **PINNING**

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter



## Absolute maximum ratings (Ta=25□)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT	
V <sub>CBO</sub>	Collector-base voltage	Open emitter	-80	V	
V <sub>CEO</sub>	Collector-emitter voltage	Open base	-60	V	
V <sub>EBO</sub>	Emitter-base voltage	Open collector	-7	V	
Ic	Collector current		-3	А	
Ісм	Collector current-peak		-6	Α	
P <sub>C</sub>	Collector dissipation	T <sub>a</sub> =25□	2	W	
		T <sub>C</sub> =25□	25		
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> =-1mA ;I <sub>B</sub> =0	-60			V
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =-50μA ;I <sub>E</sub> =0	-80			٧
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =-50μA ;I <sub>C</sub> =0	-7			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-2A ;I <sub>B</sub> =-0.2A			-1.5	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =-2A ;I <sub>B</sub> =-0.2A			-1.5	V
Ісво	Collector cut-off current	V <sub>CB</sub> =-60V; I <sub>E</sub> =0			-10	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =-7V; I <sub>C</sub> =0			-10	μA
h <sub>FE</sub>	DC current gain	I <sub>C</sub> =-0.5A ; V <sub>CE</sub> =-5V	100		320	
Сов	Output capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> =-10V;f=1MHz		50		pF
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =-0.5A ; V <sub>CE</sub> =-5V		15		MHz

# ♦ h<sub>FE</sub> Classifications

E	F
100-200	160-320

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#### PACKAGE OUTLINE

