



Micro Commercial Components



Micro Commercial Components  
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**2SB1132-P  
2SB1132-Q  
2SB1132-R**

**Features**

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

**Maximum Ratings**

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-32	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Continuous Collector Current	-1	A
I <sub>CP</sub>	Pulsed Collector Current (Single pulse, PW=100ms)	-2	A
P <sub>C</sub>	Collector Power Dissipation	500	mW
T <sub>j</sub> , T <sub>stg</sub>	Junction and Storage Temperature	-55~150	°C

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

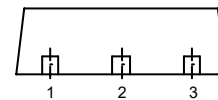
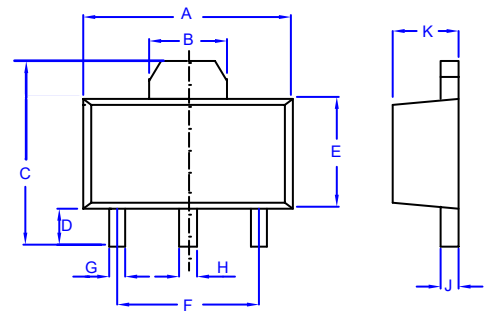
Symbol	Parameter	Min	Typ	Max	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage (I <sub>C</sub> =-1mA, I <sub>B</sub> =0)	-32	---	---	V
V <sub>CBO</sub>	Collector-Base Voltage (I <sub>C</sub> =-50μA, I <sub>E</sub> =0)	-40	---	---	V
V <sub>EBO</sub>	Emitter-Base Voltage (I <sub>E</sub> =-50μA, I <sub>C</sub> =0)	-5.0	---	---	V
I <sub>CBO</sub>	Collector cut-off Current (V <sub>CB</sub> =-20V, I <sub>E</sub> =0)	---	---	-0.5	μ A
I <sub>EBO</sub>	Emitter cut-off Current (V <sub>EB</sub> =-4V, I <sub>C</sub> =0)	---	---	-0.5	μ A
h <sub>FE</sub>	DC current gain (V <sub>CE</sub> =-3V, I <sub>C</sub> =-0.1A)	82	---	390	---
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-0.5A, I <sub>B</sub> =-50mA)	---	-0.2	-0.5	V
f <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =-5V, I <sub>C</sub> =-50mA, f=30MHz)	---	150	---	MHz
C <sub>ob</sub>	Collector output capacitance (V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz)	---	20	30	pF

**CLASSIFICATION OF h<sub>FE</sub>**

Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	BAP	BAQ	BAR

**PNP  
Plastic-Encapsulate  
Transistors**

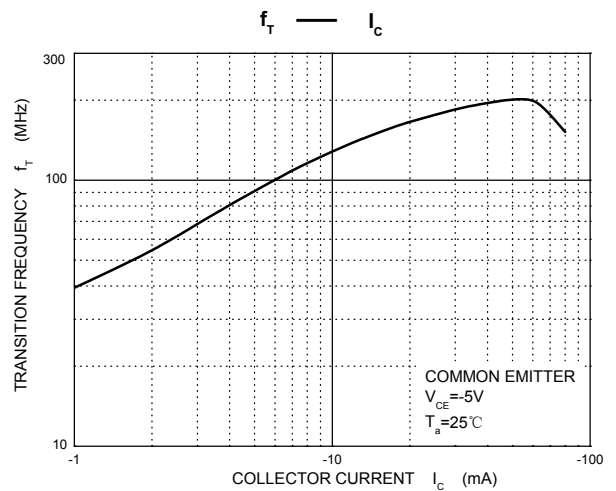
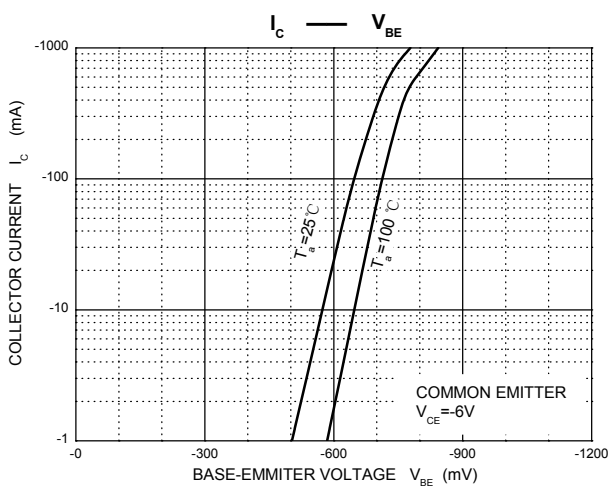
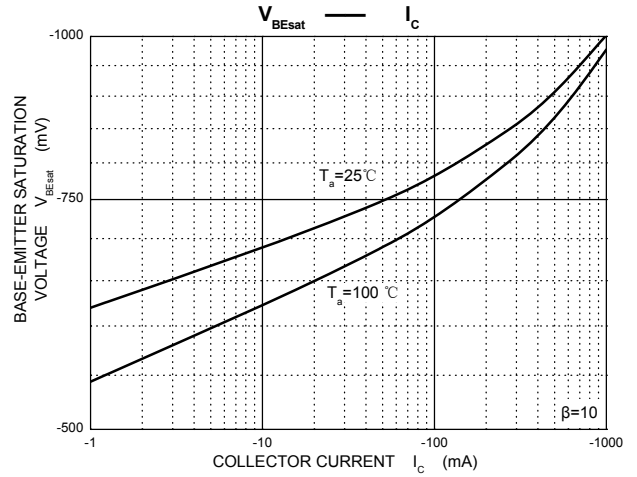
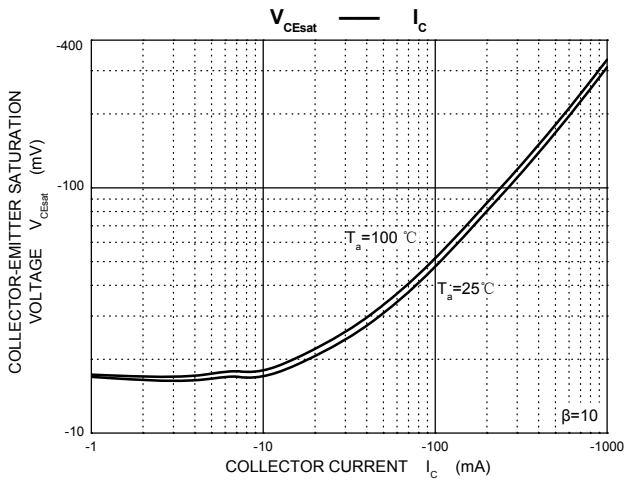
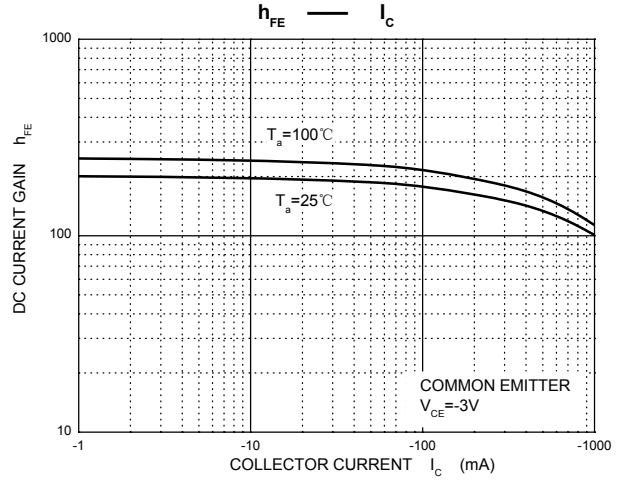
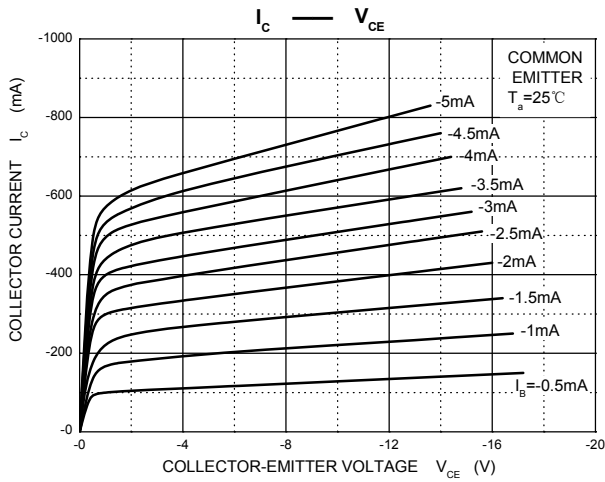
**SOT-89**



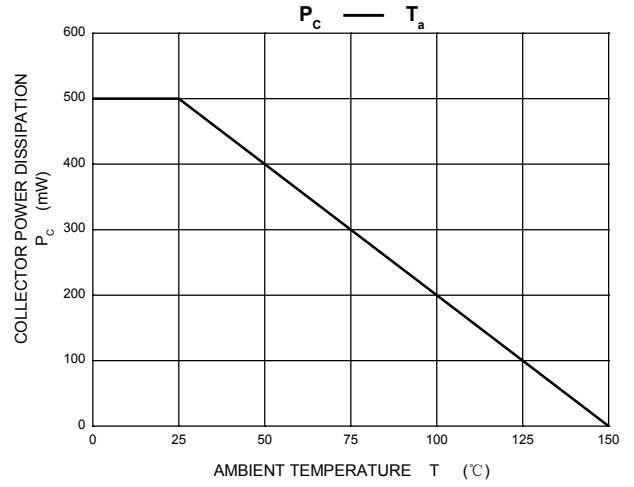
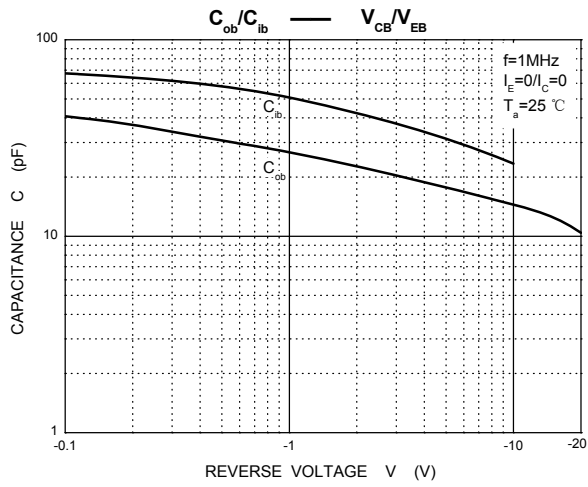
- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

# Typical Characteristics



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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