



Micro Commercial Components



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2SB1308-P
2SB1308-Q
2SB1308-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
- Power dissipation: $P_{CM} = 0.5W (T_{amb}=25^{\circ}C)$
- Collector current: $I_{CM} = -3A$
- Collector-base voltage: $V_{(BR)CBO} = -30V$
- Operating and storage junction temperature range
 $T_J, T_{stg}: -55^{\circ}C \text{ to } +150^{\circ}C$
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

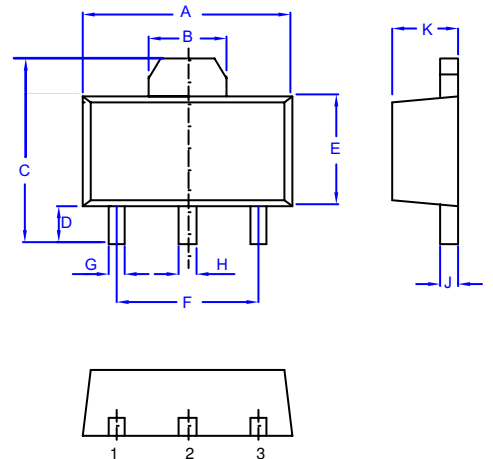
Symbol	Parameter	Min	Typ	Max	Unit
V_{CEO}	Collector-Emitter Voltage ($I_C = -50 \mu A, I_E = 0$)	-20	---	---	V
V_{CBO}	Collector-Base Voltage ($I_C = -1mA, I_B = 0$)	-30	---	---	V
V_{EBO}	Emitter-Base Voltage ($I_E = -50 \mu A, I_C = 0$)	-6.0	---	---	V
I_{CBO}	Collector cut-off Current ($V_{CB} = -20V, I_E = 0$)	---	---	-0.5	μA
I_{EBO}	Emitter cut-off Current ($V_{EB} = -5V, I_C = 0$)	---	---	-0.5	μA
h_{FE}	DC current gain ($V_{CE} = -2V, I_C = -0.5A$)	82	---	390	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -1.5A, I_B = -0.15A$)	---	---	-0.45	V
f_T	Transition Frequency ($V_{CE} = -6.0Vdc, I_C = -50mA, f = 30MHz$)	50	---	---	MHz

CLASSIFICATION OF h_{FE}

Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	BFP	BFQ	BFR

PNP
Plastic-Encapsulate
Transistors

SOT-89



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

DIM	INCHES		MM		NOTES
	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	

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Ordering Information :

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

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

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