



Micro Commercial Components

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2SB1140-R 2SB1140-S

Features

- Power dissipation: $P_{CM} = 0.5W(T_{amb}=25^{\circ}C)$
- Collector current: $I_{CM} = -2A$
- Collector-base voltage: $V_{(BR)CBO} = -50V$
- Operating and storage junction temperature range
 $T_J, T_{stg}: -55^{\circ}C \text{ to } +150^{\circ}C$
- Case Material: Molded Plastic. UL Flammability
Classification Rating 94V-0 and MSL Rating 1
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

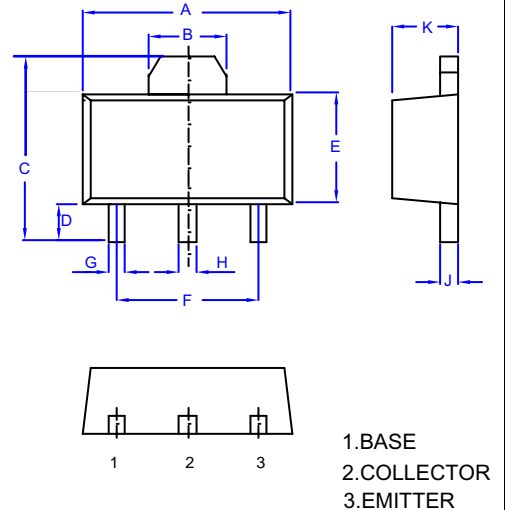
Symbol	Parameter	Min	Typ	Max	Unit
V_{CEO}	Collector-Emitter Breakdown Voltage ($I_C = -1000 \mu A, I_B = 0$)	-50	---	---	V
V_{CBO}	Collector-Base Breakdown Voltage ($I_C = -10 \mu A, I_E = 0$)	-50	---	---	V
V_{EBO}	Emitter-Base Voltage ($I_E = -10 \mu A, I_C = 0$)	-5.0	---	---	V
I_{CBO}	Collector Cut-off Current ($V_{CB} = -50V, I_E = 0$)	---	---	-1.0	μA
I_{EBO}	Emitter Cut-off Current ($V_{EB} = -5V, I_C = 0$)	---	---	-1.0	μA
h_{FE1}	DC Current Gain ($V_{CE} = -2V, I_C = -0.2A$)	120	---	340	---
h_{FE2}	DC Current Gain ($V_{CE} = -2V, I_C = -1A$)	60	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -1A, I_B = -50mA$)	---	---	-0.3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = -1A, I_B = -50mA$)	---	---	-1.2	V
f_T	Transition Frequency ($V_{CE} = -10Vdc, I_C = 50mAdc, f = 200MHz$)	---	80	---	MHz
Cob	Collector output capacitance ($V_{CB} = -10V, I_E = 0, f = 1MHz$)	---	---	80	PF

CLASSIFICATION OF h_{FE}

Rank	R	S
Range	120-240	170-340
Marking	1L	

PNP Plastic-Encapsulate Transistors

SOT-89



DIMENSINS					
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	

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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