



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
- Power dissipation:  $P_{CM} = 0.5W (T_{amb}=25^{\circ}C)$
- Collector current:  $I_{CM} = -1A$
- Collector-base voltage:  $V_{(BR)CBO} = -40V$
- 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

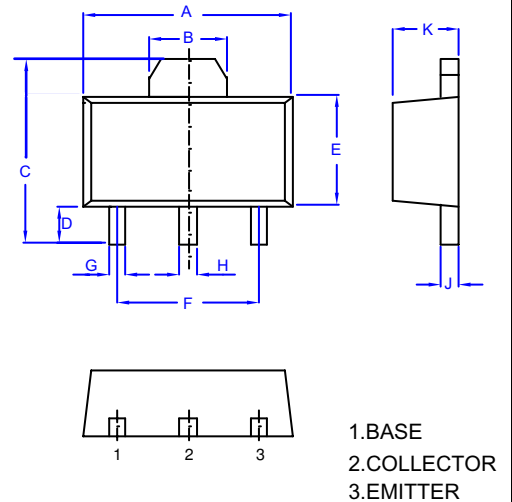
| Symbol        | Parameter                                                              | Min  | Typ | Max  | Unit    |
|---------------|------------------------------------------------------------------------|------|-----|------|---------|
| $V_{CEO}$     | Collector-Emitter Voltage<br>( $I_C = -50 \mu A, I_E = 0$ )            | -32  | --- | ---  | V       |
| $V_{CBO}$     | Collector-Base Voltage<br>( $I_C = -1 \mu A, I_B = 0$ )                | -40  | --- | ---  | V       |
| $V_{EBO}$     | Emitter-Base Voltage<br>( $I_E = -50 \mu A, I_C = 0$ )                 | -5.0 | --- | ---  | V       |
| $I_{CBO}$     | Collector cut-off Current<br>( $V_{CB} = -20V, I_E = 0$ )              | ---  | --- | -0.5 | $\mu A$ |
| $I_{EBO}$     | Emitter cut-off Current<br>( $V_{EB} = -5V, I_C = 0$ )                 | ---  | --- | -0.5 | $\mu A$ |
| $h_{FE}$      | DC current gain<br>( $V_{CE} = -2V, I_C = -0.1A$ )                     | 82   | --- | 390  | ---     |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage<br>( $I_C = -2A, I_B = -0.1A$ )   | ---  | --- | -0.5 | V       |
| $f_T$         | Transition Frequency<br>( $V_{CE} = 2.0Vdc, I_C = 0.5Adc$ )            | ---  | 150 | ---  | MHz     |
| $C_{ob}$      | Collector output capacitance<br>( $V_{CB} = -10V, I_E = 0, f = 1MHz$ ) | ---  | 20  | 30   |         |

### CLASSIFICATION OF $h_{FE}$

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

## 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; 1 Kpcs / Reel |

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

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