



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 _{CBO} | Collector-Base Voltage | -40 | V |
| V _{CEO} | Collector-Emitter Voltage | -32 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Continuous Collector Current | -1 | A |
| I _{CP} | Pulsed Collector Current (Single pulse, PW=100ms) | -2 | A |
| P _C | Collector Power Dissipation | 500 | mW |
| T _j , T _{stg} | Junction and Storage Temperature | -55~150 | °C |

Electrical Characteristics @ 25°C Unless Otherwise Specified

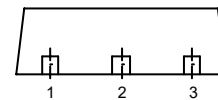
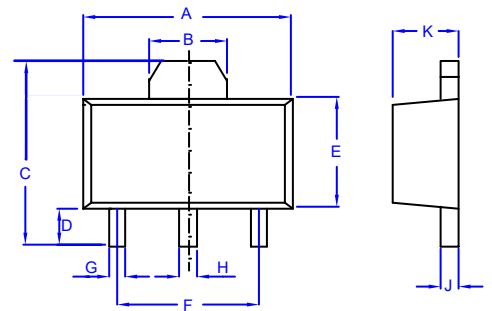
| Symbol | Parameter | Min | Typ | Max | Unit |
|----------------------|---|------|------|------|------|
| V _{CEO} | Collector-Emitter Voltage (I _C =-1mA, I _B =0) | -32 | --- | --- | V |
| V _{CBO} | Collector-Base Voltage (I _C =-50μA, I _E =0) | -40 | --- | --- | V |
| V _{EBO} | Emitter-Base Voltage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

CLASSIFICATION OF h_{FE}

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

**PNP
Plastic-Encapsulate
Transistors**

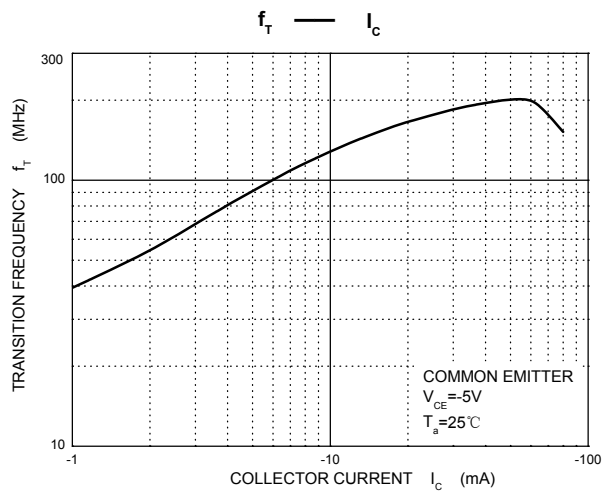
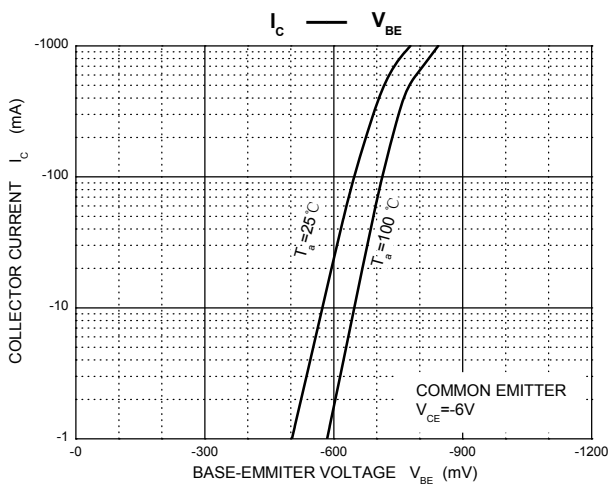
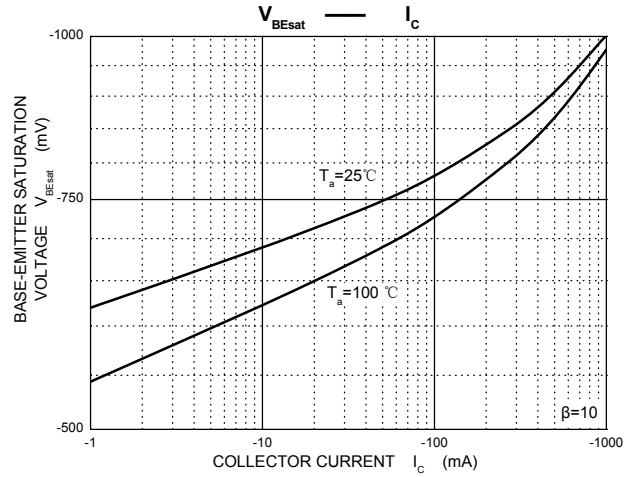
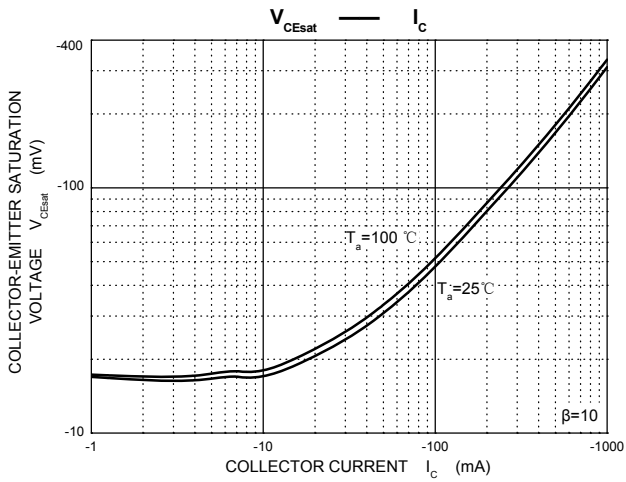
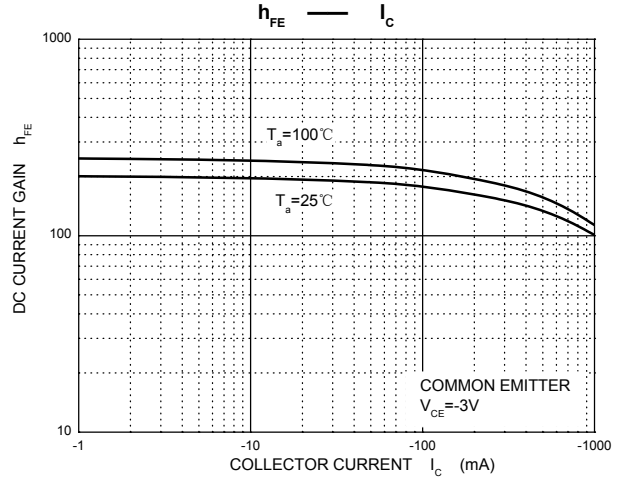
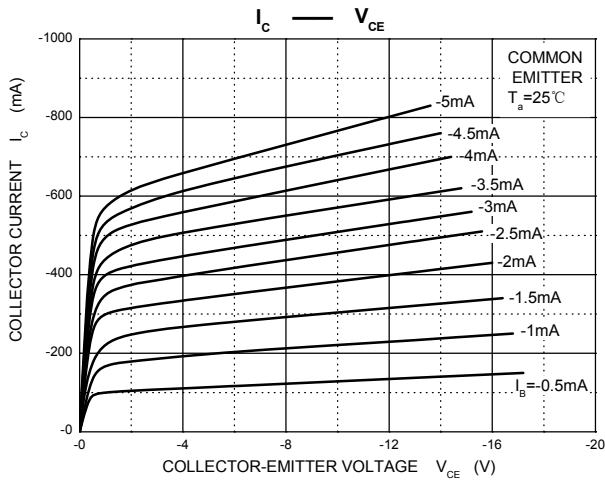
SOT-89



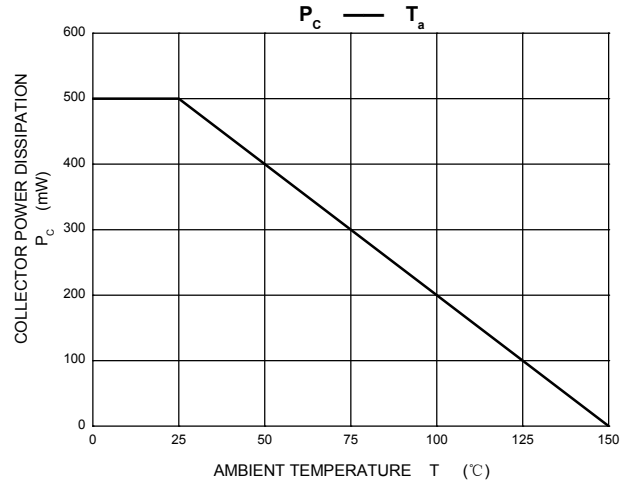
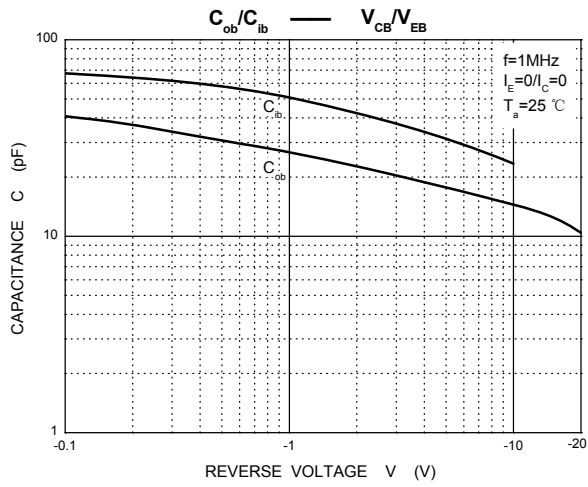
- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

| 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



Typical Characteristics





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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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