



Micro Commercial Components



Micro Commercial Components
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BC856BM

PNP Plastic-Encapsulate Transistors

SOT-883

Features

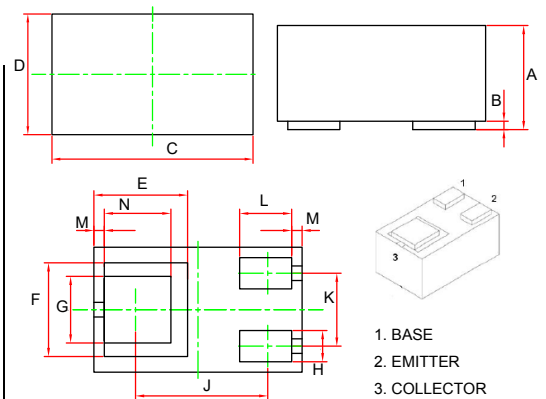
- Halogen free available upon request by adding suffix "-HF"
- Low Current
- Low Voltage
- Ultra-small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:D1

Maximum Ratings @ 25°C Unless Otherwise Specified

| Symbol | Rating | Rating | Unit |
|------------------|--|-------------|------|
| V _{CEO} | Collector-Emitter Voltage | -65 | V |
| V _{CBO} | Collector-Base Voltage | -80 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current | -100 | mA |
| R _{θJA} | Thermal Resistance Junction to Ambient | 625 | °C/W |
| T _J | Operating Junction Temperature | -55 to +150 | °C |
| T _{STG} | Storage Temperature | -55 to +150 | °C |

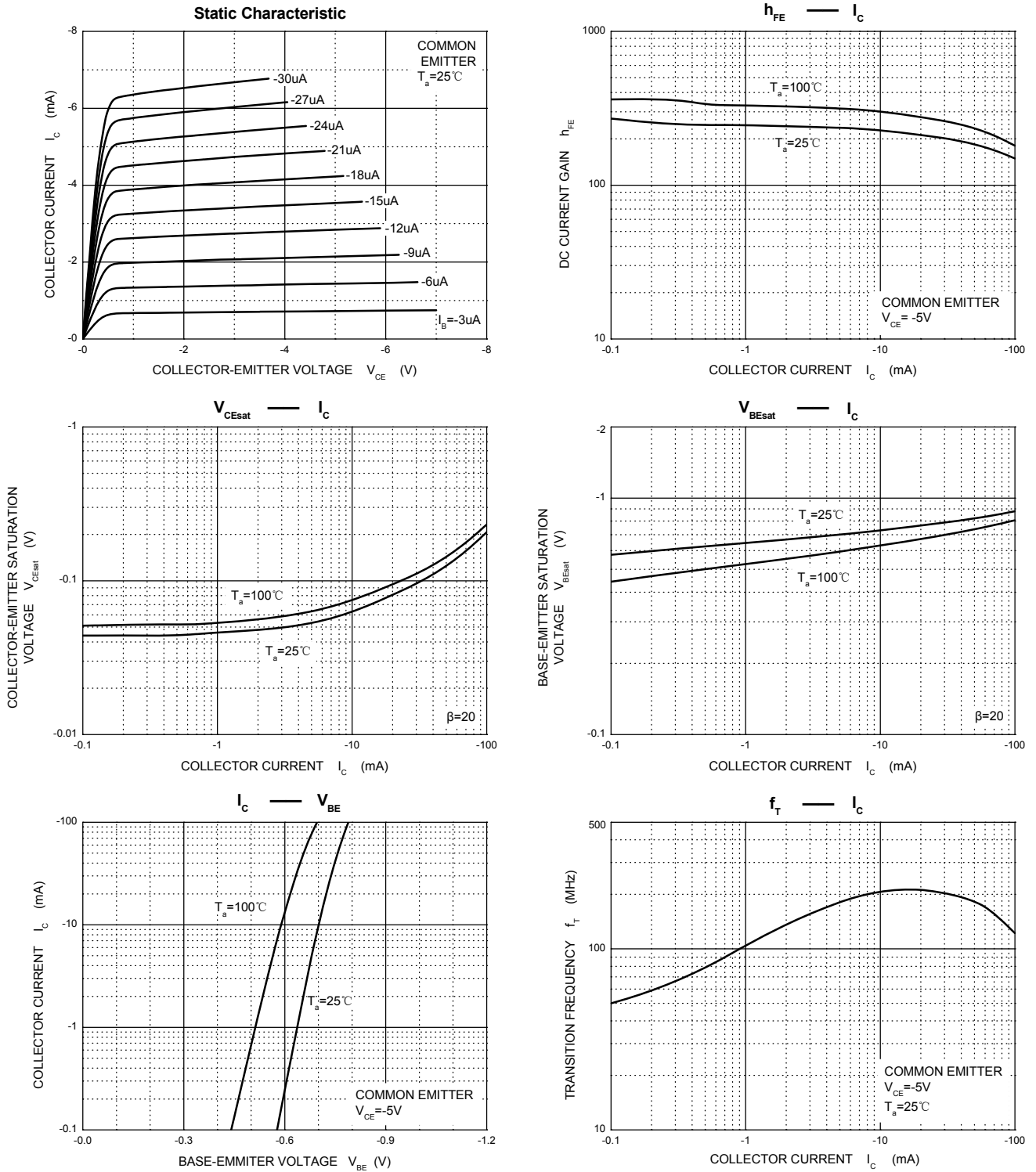
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Units |
|----------------------|---|-----|-----|------|-------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0) | -65 | --- | --- | Vdc |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage (I _C =-10μA, I _E =0) | -80 | --- | --- | Vdc |
| V _{(BR)EBO} | Collector-Emitter Breakdown Voltage (I _E =-1μA, I _C =0) | -5 | --- | --- | Vdc |
| I _{CBO} | Collector Cutoff Current (V _{CB} =-70Vdc, I _E =0Vdc) | --- | --- | -100 | nA |
| I _{CEO} | Collector Cutoff Current (V _{CB} =-60Vdc, I _B =0Vdc) | --- | --- | -100 | nA |
| I _{EBO} | Emitter Cutoff Current (V _{EB} =-5Vdc, I _C =0Vdc) | --- | --- | -0.1 | μA |
| h _{FE} | DC Current Gain (I _C =-2mA, V _{CE} =-5Vdc) | 220 | --- | 475 | --- |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I _C =-100mA, I _B =-5mA) | --- | --- | -0.5 | Vdc |
| V _{BE(sat)} | Base-Emitter Saturation Voltage (I _C =-100mA, I _B =-5mA) | --- | --- | -1.1 | Vdc |
| f _T | Transition Frequency (V _{CE} =-5Vdc, I _C =-10mA, f=100MHz) | 100 | --- | --- | MHz |
| C _{ob} | Collector Capacitance (V _{CB} =-10Vdc, f=1.0MHz, I _E =0) | --- | --- | 4.5 | pF |

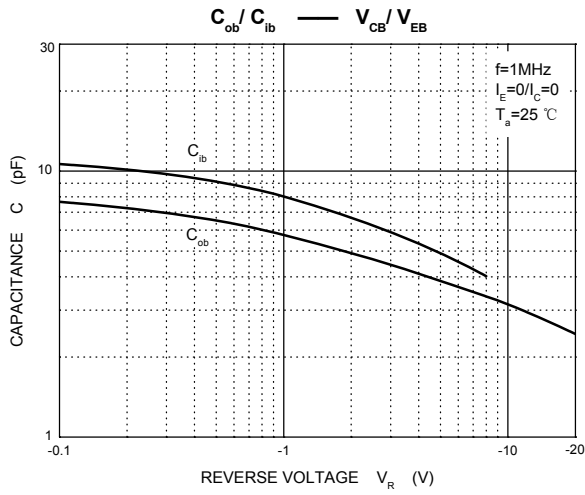


| DIM | INCHES | | MM | | NOTE |
|-----|-----------|-------|-----------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.018 | 0.022 | 0.450 | 0.550 | |
| B | 0.000 | 0.004 | 0.010 | 0.100 | |
| C | 0.037 | 0.041 | 0.950 | 1.050 | |
| D | 0.022 | 0.026 | 0.550 | 0.650 | |
| E | 0.018REF. | | 0.450REF. | | |
| F | 0.018REF. | | 0.450REF. | | |
| G | 0.011 | 0.015 | 0.270 | 0.370 | |
| H | 0.004 | 0.008 | 0.100 | 0.200 | |
| J | 0.025REF. | | 0.635REF. | | |
| K | 0.012 | 0.016 | 0.300 | 0.400 | |
| L | 0.008 | 0.012 | 0.200 | 0.300 | |
| M | 0.002REF. | | 0.050REF. | | |
| N | 0.011 | 0.015 | 0.270 | 0.370 | |

Typical Characteristics



Typical Characteristics





Ordering Information :

| Device | Packing |
|----------------|------------------------|
| Part Number-TP | Tape&Reel; 10Kpcs/Reel |

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

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