

Micro Commercial Components



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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
- Moisure Sensitivity Level 1
- Marking:D1

Maximum Ratings @ 25°C Unless Otherwise Specified

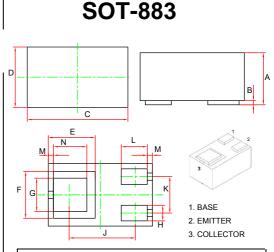
| Symbol | Rating | Rating | Unit |
|------------------|--|-------------|------|
| V _{CEO} | Collector-Emitter Voltage | -65 | V |
| V _{CBO} | Collector-Base Voltage | -80 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| Ι _C | Collector Current | -100 | mA |
| R $_{\rm JA}$ | Thermal Resistance Junction to Ambient | 625 | °C/W |
| TJ | 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 | Тур | Max | Units | | | |
|----------------------|---|-----|-----|------|-------|--|--|--|
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage (I _C =-10mAdc, I _B =0) | -65 | | | Vdc | | | |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage (I _c =-10µAdc, I _E =0) | -80 | | | Vdc | | | |
| $V_{(BR)EBO}$ | Collector-Emitter Breakdown Voltage (I _E =-1µAdc, I _C =0) | -5 | | | Vdc | | | |
| I _{CBO} | Collector Cutoff Current (V _{CB} =-70Vdc, I _E =0Vdc) | | | -100 | nAdc | | | |
| I _{CEO} | Collector Cutoff Current (V _{CB} =-60Vdc, I _B =0Vdc) | | | -100 | nAdc | | | |
| I _{EBO} | Emitter Cutoff Current (V _{EB} =-5Vdc, I _C =0Vdc) | | | -0.1 | µAdc | | | |
| h _{FE} | DC Current Gain (I _c =-2mAdc, V _{ce} =-5Vdc) | 220 | | 475 | | | | |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I_c =-100mAdc, I_B =-5mAdc) | | | -0.5 | Vdc | | | |
| $V_{\text{BE(sat)}}$ | Base-Emitter Saturation Voltage (I_c =-100mAdc, I_B =-5mAdc) | | | -1.1 | Vdc | | | |
| f⊤ | Transition Frequency (V _{CE} =-5Vdc, I _C =-10mAdc, f=100MHz) | 100 | | | MHz | | | |
| C _{ob} | Collector Capacitance (V _{CB} =-10Vdc, f=1.0MHz, I _E =0) | | | 4.5 | pF | | | |
| | | | | | | | | |

BC856BM

PNP Plastic-Encapsulate Transistors

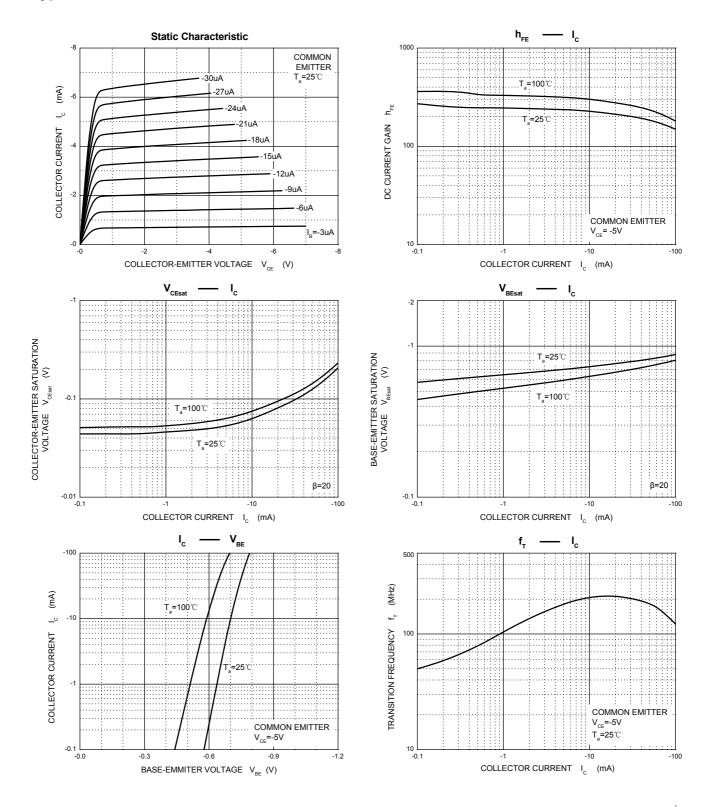


| | | DINE | NSIONS | | |
|-----|--------|-------|--------|--------|------|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| А | 0.018 | 0.022 | 0.450 | 0.550 | |
| В | 0.000 | 0.004 | 0.010 | 0.100 | |
| С | 0.037 | 0.041 | 0.950 | 1.050 | |
| D | 0.022 | 0.026 | 0.550 | 0.650 | |
| Е | 0.018 | SREF. | 0.4 | 50REF. | |
| F | 0.018 | SREF. | 0.4 | 50REF. | |
| G | 0.011 | 0.015 | 0.270 | 0.370 | |
| Н | 0.004 | 0.008 | 0.100 | 0.200 | |
| J | 0.02 | 5REF. | 0.6 | 35REF. | |
| K | 0.012 | 0.016 | 0.300 | 0.400 | |
| L | 0.008 | 0.012 | 0.200 | 0.300 | |
| М | 0.002 | 2REF. | 0.0 | 50REF. | |
| Ν | 0.011 | 0.015 | 0.270 | 0.370 | |

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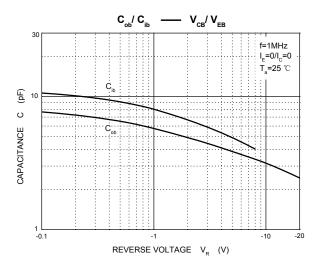
Typical Characteristics



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Typical Characteristics



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Revision: B



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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