



Micro Commercial Components

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MPS2222

MPS2222-L

MPS2222-H

Features

- Through Hole Package
- Capable of 625mWatts of Power Dissipation
- Collector-current :0.6A
- Operating and storage junction temperature range:
T_j.Tstg:-55°C to+150°C
- Case Material: Molded Plastic. UL Flammability
Classification Rating 94V-0 and MSL Rating 1
- Marking:Type number
- Lead Free Finish/RoHS Compliant ("P" Suffix designates
RoHS Compliant. See ordering information)

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Max | Units |
|----------------------------|--|-----|-----|-------|
| OFF CHARACTERISTICS | | | | |
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0) | 30 | | Vdc |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage (I _C =10μAdc, I _E =0) | 60 | | Vdc |
| V _{(BR)EBO} | Emitter-Base Breakdown Voltage (I _E =10μAdc, I _C =0) | 5.0 | | Vdc |
| I _{CBO} | Base Cutoff Current (V _{CB} =50Vdc, I _E =0) | | 0.1 | uAdc |
| I _{CEO} | Collector Cutoff Current (V _{CB} =3.0Vdc, I _C =0) | | 0.1 | uAdc |

ON CHARACTERISTICS

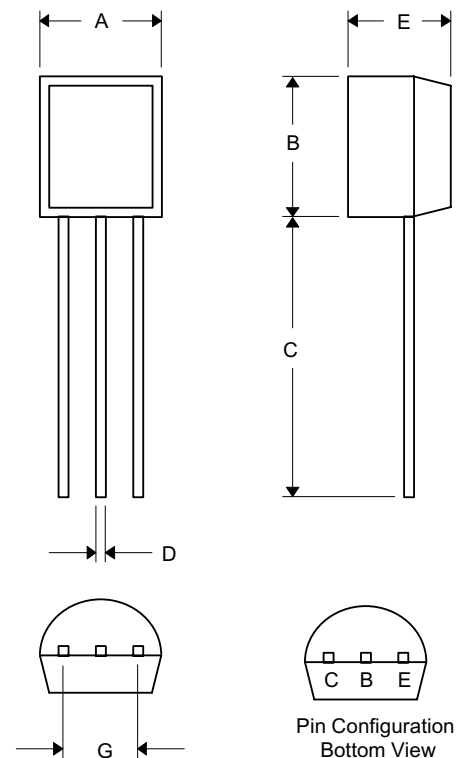
| | | | | |
|----------------------|---|-----|-----|-----|
| h _{FE} | DC Current Gain | | | |
| h _{FE(1)} | (I _C =1.0mAdc, V _{CE} =10Vdc) | 100 | 300 | |
| h _{FE(2)} | (I _C =150mAdc, V _{CE} =10Vdc) | 60 | | |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc) | | 1.0 | Vdc |
| V _{BE(sat)} | Base-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc) | | 2.0 | Vdc |
| f _T | Transition frequency (I _C =20mAdc, V _{CE} =20Vdc, f=100MHz) | 300 | | MHz |

CLASSIFICATION OF h_{FE(1)}

| Rank | L | H |
|-------|---------|---------|
| Range | 100-200 | 200-300 |

NPN General Purpose Amplifier

TO-92



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| A | .175 | .185 | 4.45 | 4.70 | |
| B | .175 | .185 | 4.45 | 4.70 | |
| C | .500 | ----- | 12.70 | ----- | |
| D | .016 | .020 | 0.41 | 0.56 | |
| E | .135 | .145 | 3.43 | 3.68 | |
| G | .095 | .105 | 2.42 | 2.67 | |

www.mccsemi.com



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Ordering Information

| Device | Packing |
|------------------|----------------------------|
| (Part Number)-AP | Ammo Packing;2Kpcs/AmmoBox |
| (Part Number)-BP | Bulk;1Kpcs/Bag |

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