



Micro Commercial Components

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DMMT5551

Features

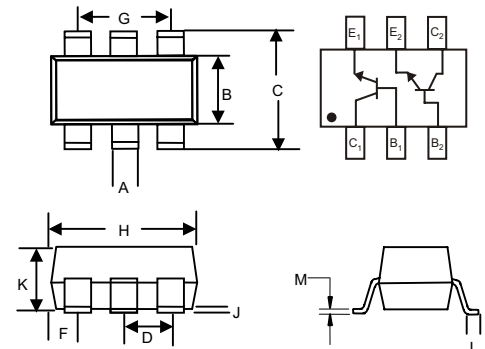
- Surface Mount SOT-363 Package
- 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:K4R

Plastic-Encapsulate Transistors

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Rating | Rating | Unit |
|------------------|--------------------------------|-------------|------|
| V _{CEO} | Collector-Emitter Voltage | 160 | V |
| V _{CBO} | Collector-Base Voltage | 180 | V |
| V _{EBO} | Emitter-Base Voltage | 6.0 | V |
| I _C | Collector Current-Continuous | 0.2 | A |
| P _D | Power Dissipation | 0.2 | W |
| T _J | Operating Junction Temperature | -55 to +150 | °C |
| T _{STG} | Storage Temperature | -55 to +150 | °C |

SOT-363



OFF CHARACTERISTICS

| | | | | |
|----------------------|--|-----|-----|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage (I _C =-1.0mA, I _B =0) | 160 | --- | Vdc |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage (I _C =100μA, I _E =0) | 180 | | Vdc |
| V _{(BR)EBO} | Emitter-Base Breakdown Voltage (I _E =10μA, I _C =0) | 6.0 | | Vdc |
| I _{EBO} | Emitter Cutoff Current (V _{EB} =4Vdc, I _C =0) | | 50 | nAdc |
| I _{CBO} | Collect Cutoff Current (V _{CB} =120Vdc, I _E =0) | | 50 | nAdc |

ON CHARACTERISTICS

| | | | | |
|----------------------|---|----------|------|-----|
| h _{FE} | DC Current Gain* (I _C =1mA, V _{CE} =5.0Vdc) (I _C =10mA, V _{CE} =5.0Vdc) | 80 80 | 250 | |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage (I _C =10mA, I _B =1.0mA) | | 0.15 | Vdc |
| V _{BE(sat)} | Base-Emitter Saturation Voltage (I _C =10mA, I _B =1.0mA) | | 1.0 | Vdc |

SMALL-SIGNAL CHARACTERISTICS

| | | | | |
|------------------|--|-----|-----|-----|
| f _r | Current Gain-Bandwidth Product (I _C =10mA, V _{CE} =10Vdc, f=100MHz) | 100 | 300 | MHz |
| C _{obo} | Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz) | | 6.0 | pF |
| Noise figure | R _g =1kohm V _{CE} =5Vdc, I _C =200uA, f=1KHz, R=1kOHM | | 8.0 | NF |

DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .004 | .012 | 0.10 | 0.30 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .079 | .087 | 2.00 | 2.20 | |
| D | .026 | | 0.65Nominal | | |
| F | .012 | .016 | 0.30 | 0.40 | |
| H | .071 | .087 | 1.80 | 2.20 | |
| J | --- | .004 | --- | 0.10 | |
| K | .035 | .039 | 0.90 | 1.00 | |
| L | .010 | .016 | 0.25 | 0.40 | |
| M | .004 | .016 | 0.10 | 0.25 | |



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Ordering Information

| | |
|------------------|----------------------|
| Device | Packing |
| (Part Number)-TP | Tape&Reel;3Kpcs/Reel |

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