



RB751S-40DP

40 Volts Schottky Barrier Diode

Features

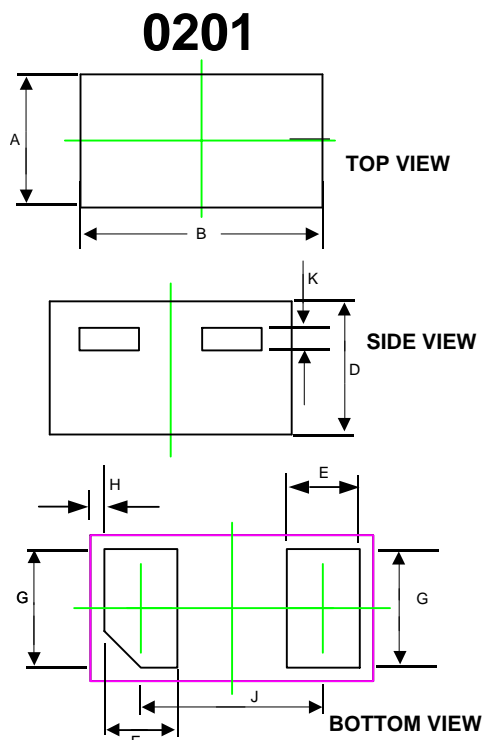
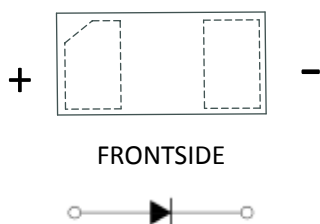
- Halogen free available upon request by adding suffix "-HF"
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking: 5

Maximum Ratings

| Symbol | Rating | Rating | Unit |
|--------------|--|-------------|---------------|
| V_{RM} | Peak Reverse Voltage | 40 | V |
| $V_{R(RMS)}$ | RMS Reverse Voltage | 28 | V |
| I_O | Mean Rectifying Current | 30 | mA |
| I_{FSM} | Non-Repetitive Peak forward Surge Current @ $t=8.3ms$, half sine wave | 200 | mA |
| P_d | Power Dissipation | 100 | mW |
| R_{thJA} | Thermal Resistance from Junction to Ambient | 1000 | $^{\circ}C/W$ |
| T_J | Junction Temperature | 125 | $^{\circ}C$ |
| T_{STG} | Storage Temperature | -55 to +125 | $^{\circ}C$ |

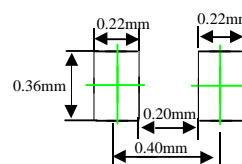
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Units |
|----------------------------|--|-----|-----|------|---------|
| OFF CHARACTERISTICS | | | | | |
| V_F | Forward Voltage ($I_F=1mA$) | --- | --- | 0.37 | Vdc |
| $V_{(BR)}$ | Reverse Breakdown Voltage ($I_R=1mA$) | 40 | --- | --- | Vdc |
| I_R | Reverse Current ($V_R=30Vdc$) | --- | --- | 0.5 | μA |
| C_T | Capacitance between Terminals ($V_R=1V, f=1MHz$) | --- | 2 | --- | pF |

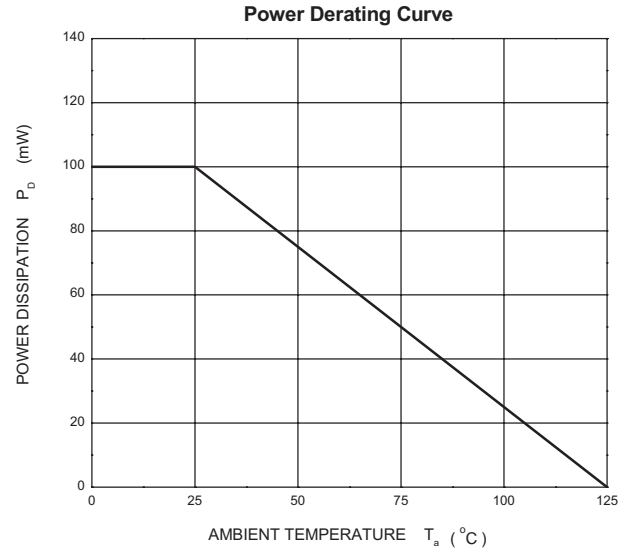
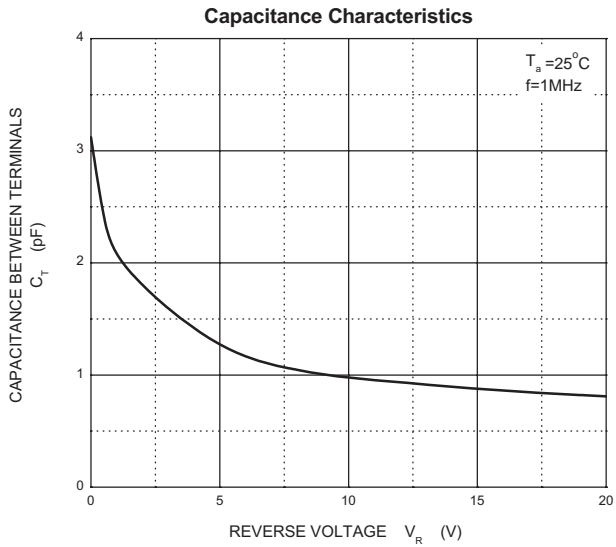
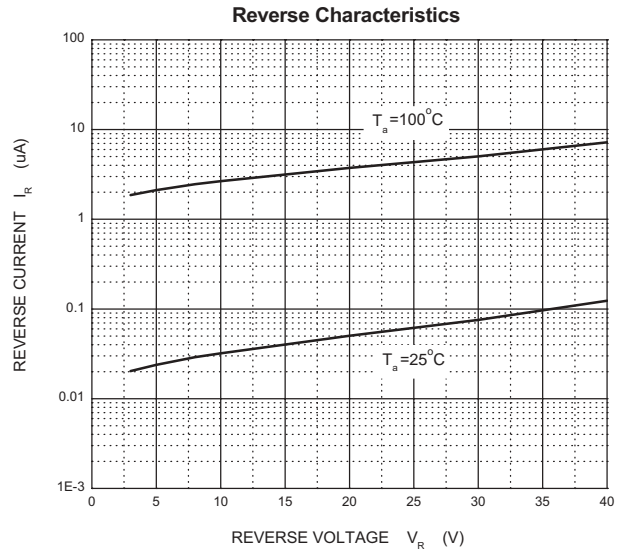
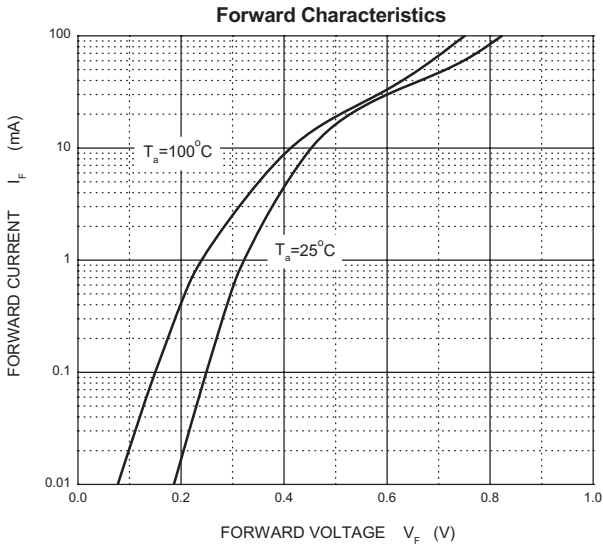


| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| A | 0.011 | 0.015 | 0.27 | 0.37 | |
| B | 0.022 | 0.026 | 0.57 | 0.67 | |
| D | 0.011 | 0.013 | 0.275 | 0.34 | |
| E | 0.005 | 0.008 | 0.125 | 0.195 | |
| G | 0.009 | 0.012 | 0.225 | 0.295 | |
| H | 0.001 | REF. | 0.030 | REF. | |
| J | 0.014 | 0.017 | 0.365 | 0.435 | |
| K | 0.002 | REF. | 0.050 | REF. | |

SUGGESTED SOLDER PAD LAYOUT



RB751S-40DP





Micro Commercial Components

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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