



Micro Commercial Components
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Features

- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High conductance.
- Very low forward voltage drop.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking: K77

Maximum Ratings

| | | |
|--|------------------|----------------|
| Peak Repetitive Reverse Voltage | V_R | 40V |
| Typical Thermal Resistance, Junction to Ambient | R_{thJA} | 286°C/W |
| Non-Repetitive Peak Forward Current $t < 1s$ | $I_{F\text{SM}}$ | 5.5A |
| Total Power Dissipation @ $T_A = 25^\circ\text{C}$ | P_D | 350mW |
| Storage Temperature Range | T_{stg} | -55°C to 125°C |
| Operating Junction Temperature Range | T_j | -55°C to 125°C |
| Average Rectified Current | I_o | 750mA |

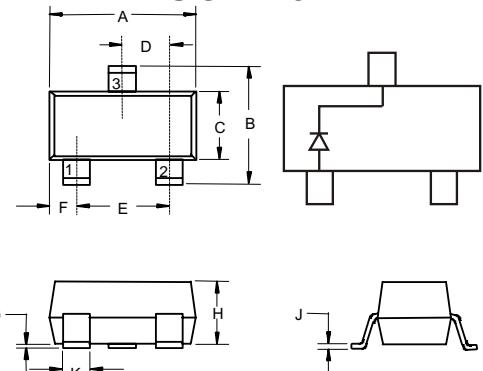
Electrical Characteristics @ 25 °C Unless Otherwise Specified

| Characteristics | Symbol | Min | Typ | Max. | Test Condition |
|----------------------|-------------|-----|---|---|---|
| Forward Voltage | V_F | | 0.30V 0.32V 0.36V 0.41V 0.45V 0.48V 0.55V | 0.34V 0.36V 0.39V 0.44V 0.49V 0.54V 0.65V | $I_F = 50\text{mA}$ $I_F = 100\text{mA}$ $I_F = 250\text{mA}$ $I_F = 500\text{mA}$ $I_F = 750\text{mA}$ $I_F = 1000\text{mA}$ $I_F = 1500\text{mA}$ |
| Reverse Current | I_R | | 60 μA | 100 μA | $V_R=30\text{V}$ |
| Reverse Breakdown | $V_{(BR)R}$ | 40V | 45V | | $I_R=300\mu\text{A}$ |
| Junction Capacitance | C_J | | 175pF 25pF | | $f=1.0\text{MHz}, V_R=0\text{V}$ $f=1.0\text{MHz}, V_R=25\text{V}$ |

BAT750

**350mWatt, 40Volt
Schottky Barrier Diode**

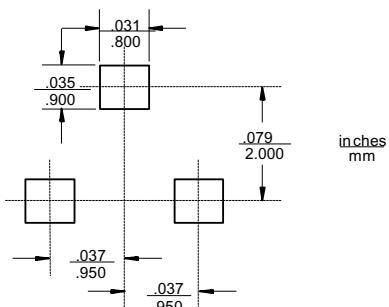
SOT-23



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .110 | .120 | 2.80 | 3.04 | |
| B | .083 | .104 | 2.10 | 2.64 | |
| C | .047 | .055 | 1.20 | 1.40 | |
| D | .035 | .041 | .89 | 1.03 | |
| E | .070 | .081 | 1.78 | 2.05 | |
| F | .018 | .024 | .45 | .60 | |
| G | .0005 | .0039 | .013 | .100 | |
| H | .035 | .044 | .89 | 1.12 | |
| J | .003 | .007 | .085 | .180 | |
| K | .015 | .020 | .37 | .51 | |

Suggested Solder Pad Layout



Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

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

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