

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- Very Low Leakage Current
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Case: SOT-23
- Weight: approx. 0.008 grams
- Marking Code: JX
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

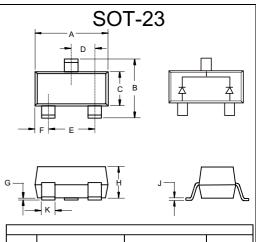
| Symbol | Parameter | Rating | Unit |
|--------------------------------------|---|-------------------|------|
| V _{RRM} V _{RWM} | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage | 85 V | |
| V _{R(RMS)} | RMS Reverse Voltage | 60 V | |
| I _F | Forward Continuous Current Single diode loaded Note1 | 215 | - mA |
| | Double diode loaded Note1 | 125 | |
| I _{FRM} | Repetitive Peak Forward Current | 500 | mA |
| I _{FSM} | Non-Repetitive Peak Forward Surge Current @ t=1.0us @ t=1.0ms @ t=1.0s | 4.0 1.0 0.5 | A |
| PD | Power Dissipation | 250 | mW |
| R _{JA} | Thermal Resistance Junction to Ambient Air | 500 | K/W |
| TJ | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | -65 to +150 | °C |

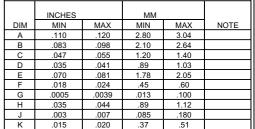
Note 1: Device mounted on a FR4 printed circuit board Electrical Characteristics @ 250C Inless Otherwise Specified

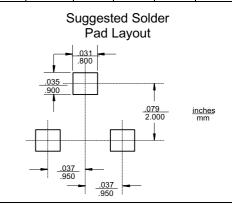
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|-----------------|--|------|----------|---------------------------|-------|--|--|
| Symbol | Parameter | Min | Тур | Max | Units | | |
| $V_{(BR)R}$ | Reverse Breakdown Voltage (I _R =100uAdc) | 85 | | | V | | |
| V _F | Forward Voltage ⁽¹⁾ $I_F=1.0mAdc$ $I_F=10mAdc$ $I_F=50mAdc$ $I_F=150mAdc$ | | | 0.9 1.0 1.1 1.25 | V | | |
| I _R | Leakage Current (V _R =75Vdc) | | | 5.0 | nA | | |
| C_j | Junction Capacitance (V _R =0, f=1.0MHz) | | 2.0 | | pF | | |
| t _{rr} | Reverse Recovery Time (I_F =10mA, I_R =10mA, Irr=0.1 x I_R R_L =1000HMS) | | | 3.0 | us | | |

250mW Low Leakage Diode 85 Volts

BAV170



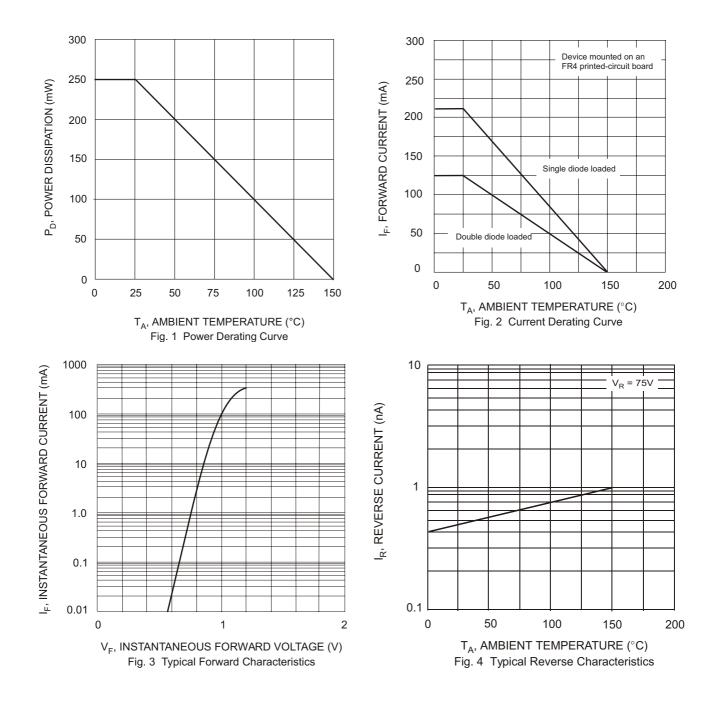




*(1) Short duration pulse test to minimize self-heating effect.

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Ordering Information :

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

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