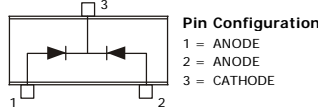
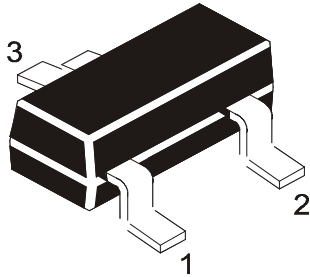


SILICON PLANAR DUAL SWITCHING DIODES

BAV70



SOT-23 Formed SMD Package

For Lead Free Parts, Device Part # will be Prefixed with "T"

Marking

BAV70 = A4

High-Speed Switching Dual Diodes, Common Cathode

ABSOLUTE MAXIMUM RATINGS (Rating Per Diode)

| DESCRIPTION | SYMBOL | VALUE | UNIT |
|---|-----------|--------------|------------------|
| Continuous Reverse Voltage | V_R | 70 | V |
| Repetitive Peak Reverse Voltage | V_{RRM} | 75 | V |
| Forward Current (DC) | I_F | 215 | mA |
| Repetitive Peak Forward Current | I_{FRM} | 450 | mA |
| Non Repetitive Peak Forward Current (per crystal) | | | |
| t=1 μ s | I_{FSM} | 4.0 | A |
| t=1 ms | I_{FSM} | 1.0 | A |
| t=1 s | I_{FSM} | 0.5 | A |
| Power Dissipation up to $T_a=25^\circ\text{C}$ | P_D | 250 | mW |
| Storage Temperature Range | T_{stg} | - 55 to +150 | $^\circ\text{C}$ |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |

THERMAL RESISTANCE

| | | | |
|---------------------------------|---------------|-----|-----|
| Junction to Ambient in free air | $R_{th(j-a)}$ | 500 | K/W |
|---------------------------------|---------------|-----|-----|

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise) per diode

| DESCRIPTION | SYMBOL | TEST CONDITION | MIN | MAX | UNIT |
|-----------------------------------|----------|---|-----|-------|---------------|
| Forward Voltage | V_F | $I_F = 1\text{mA}$ | | 0.715 | V |
| | | $I_F = 10\text{mA}$ | | 0.855 | V |
| | | $I_F = 50\text{mA}$ | | 1.0 | V |
| | | $I_F = 150\text{mA}$ | | 1.25 | V |
| Reverse Current | I_R | $V_R=25\text{V}, T_J=150^\circ\text{C}$ | | 60 | μA |
| | | $V_R=70\text{V}$ | | 2.5 | μA |
| | | $V_R=70\text{V}, T_J=150^\circ\text{C}$ | | 100 | μA |
| Diode Capacitance | C_d | $V_R=0\text{V}, f=1\text{MHz}$ | | 1.5 | pF |
| Forward Recovery Voltage | V_{fr} | $I_F=10\text{mA}, t_r=20\text{ns}$ | | 1.75 | V |
| Reverse Recovery Time | t_{rr} | $I_F=10\text{mA}$, to $I_R=60\text{mA}$, $I_R=1.0\text{mA}, R_L=100\Omega$ | | 4.0 | ns |
| Reverse Charge When Switched Time | Q_S | $I_F=10\text{mA}$ to $V_R=5\text{V}$, $R_L=100\Omega$ | | 45 | pC |

Packing Detail

| PACKAGE | STANDARD PACK | | INNER CARTON BOX | | OUTER CARTON BOX | | |
|------------|---------------|----------------|------------------|-------|-------------------|--------|--------|
| | Details | Net Weight/Qty | Size | Qty | Size | Qty | Gr Wt |
| SOT-23 T&R | 3K/reel | 136 gm/3K pcs | 3" x 7.5" x 7.5" | 12.0K | 17" x 15" x 13.5" | 192.0K | 12 kgs |
| | | | 9" x 9" x 9" | 51.0K | 19" x 19" x 19" | 408.0K | 28 kgs |
| | 10K/reel | 415 gm/10K pcs | 13" x 13" x 0.5" | 10.0K | 17" x 15" x 13.5" | 300.0K | 16 kgs |

Customer Notes

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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