

SOT23 SILICON PLANAR DUAL SCHOTTKY BARRIER DIODES

ISSUE 3 - JULY 1995



BAS70-04
BAS70-05
BAS70-06

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|------------------------|-------------------------|------------------------|------------------|
| | | | SOT23 |
| SERIES PAIR | COMMON CATHODE | COMMON ANODE | |
| Device Type: BAS70-04 | Device Type: BAS70-05 | Device Type: BAS70-06 | |
| Partmarking Detail: 2Z | Partmarking Detail: 2Z5 | Partmarking Detail: 1Z | |

ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | VALUE | UNIT |
|---------------------------------------------------|----------------|-------------|--------------------|
| Power Dissipation at $T_{amb}=25^{\circ}\text{C}$ | P_{tot} | 330 | mW |
| Operating and Storage Temperature Range | $T_j; T_{stg}$ | -55 to +150 | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$ unless otherwise stated).

| PARAMETER | SYMBOL | MIN. | MAX. | UNIT | CONDITIONS. |
|---------------------------------|----------|------|------|------|----------------------------------------------------------------|
| Breakdown Voltage | V_{BR} | 70 | | V | $I_R=10\mu\text{A}$ |
| Reverse Leakage Current | I_R | | 200 | nA | $V_R=50\text{V}$ |
| Forward Voltage | V_F | | 410 | mV | $I_F=1\text{mA}$ |
| Forward Current | I_F | 15 | | mA | $V_F=1\text{V}$ |
| Capacitance | C_T | | 2.0 | pF | $f=1\text{MHz}, V_R=0$ |
| Effective Minority Lifetime (1) | τ | | 100 | ps | $f=54\text{MHz}, I_{pk}=20\text{mA}$ (Krakauer Test Method) |

(1) Sample Test

For typical characteristics graphs see ZC2800E datasheet.