

COMPUTER DIODE

Switching

BAY41-BAY43
BAY60
BAX12

T-03-09

FEATURES

- Metallurgical Bond
- Planar Passivated
- DO-35

DESCRIPTION

This series offers Metallurgical Bonding and is very popular for general purpose switching applications.

ABSOLUTE MAXIMUM RATINGS, AT 25°C

| | BAY41 | BAY42 | BAY43 | BAY60 | BAX12 |
|-----------------------------------|-----------------|-------|-------|-------|-------|
| Peak Reverse Voltage | 40V | 60V | 80V | 25V | 90V |
| Average Rectified Current | 225mA | 225mA | 225mA | 115mA | 400mA |
| Peak Forward Current | 600mA | 600mA | 600mA | 225mA | 800mA |
| Operating Temperature Range | -65°C to +150°C | | | | |
| Storage Temperature Range | -65°C to +200°C | | | | |

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

| Type | Peak Inverse Voltage | Maximum Forward Voltage | | | | | | Reverse Current | | Junction Capacitance @ 0V | Reverse Recovery Time T_{rr} Condition 10/10/1 |
|--------|----------------------|-------------------------|--------|--------|---------|---------|---------|-----------------|---------|---------------------------|--|
| | | @ 10mA | @ 30mA | @ 50mA | @ 100mA | @ 200mA | @ 400mA | V_R | μA | | |
| | | V | V | V | V | V | V | V | μA | | |
| BAY41 | 40 | — | — | — | — | 1.0 | — | 40 | 5 | 5 | 8.5 |
| BAY42 | 60 | — | — | — | — | 1.0 | — | 60 | 5 | 5 | 15 |
| BAY43 | 80 | — | — | — | — | 1.0 | — | 80 | 5 | 5 | 15 |
| BAY60 | 25 | — | 1.0 | — | — | — | — | 25 | .1 | 4 | 4 |
| BAX12* | 90 | .75 | — | .84 | .90 | 1.0 | 1.25 | 90 | 100 | 20 | 15 |

*Maximum reverse energy 5mW/second.

MECHANICAL SPECIFICATIONS

