

# 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 | $V_R$           | $\mu A$ |                           |  |
|        |                      | V                       | V      | V      | V       | V       | V       | V               | $\mu A$ |                           |  |
| 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

