

RECTIFIERS

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Fast Silicon Rectifiers 1 A BA157 to BA159 (P1 Plastic Package) BA157S to BA159S (DO-41 Plastic Package)

| Type | | Average Rectified Current at $T_A = 50^\circ\text{C}$ | Peak Inverse Voltage | Surge Forward Current Half Cycle 50 Hz | Max. Forward Voltage Drop | | Max. Reverse Current | Max. Reverse Recovery Time | | Conditions |
|-------|--------|---|----------------------|--|---------------------------|---------------|----------------------|----------------------------|------------------------|---|
| | | I_o Amps | P.I.V. Volts | Amps | V_F Volts | at I_F Amps | I_R μA | at V_R Volts | t_{rr} μs | |
| BA157 | BA157S | 1 | 400 | 35 | 1.3 | 1.0 | 5 | 400 | 0.3 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BA158 | BA158S | 1 | 600 | 35 | 1.3 | 1.0 | 5 | 600 | 0.3 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BA159 | BA159S | 1 | 1000 | 35 | 1.3 | 1.0 | 5 | 1000 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |

Fast Silicon Rectifiers 1 A LZ4001 to LZ4003 (MELF Glass Package)

| Type | | Average Rectified Current at $T_A = 50^\circ\text{C}$ | Peak Inverse Voltage | Surge Forward Current Half Cycle 50 Hz | Max. Forward Voltage Drop | | Max. Reverse Current | Max. Reverse Recovery Time | | Conditions |
|--------|--|---|----------------------|--|---------------------------|---------------|----------------------|----------------------------|------------------------|---|
| | | I_o Amps | P.I.V. Volts | Amps | V_F Volts | at I_F Amps | I_R μA | at V_R Volts | t_{rr} μs | |
| LZ4001 | | 1 | 50 | 15 | 1.75 | 2.0 | 5 | 50 | 0.3 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| LZ4002 | | 1 | 100 | 15 | 1.75 | 2.0 | 5 | 100 | 0.3 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| LZ4003 | | 1 | 200 | 15 | 1.75 | 2.0 | 5 | 200 | 0.3 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |

Fast Silicon Rectifiers 2 A BY296 to BY299 (P2 Plastic Package) BY296S to BY299S (17-02 Plastic Package)

| Type | | Average Rectified Current at $T_A = 50^\circ\text{C}$ | Peak Inverse Voltage | Surge Forward Current Half Cycle 50 Hz | Max. Forward Voltage Drop | | Max. Reverse Current | Max. Reverse Recovery Time | | Conditions |
|-------|--------|---|----------------------|--|---------------------------|---------------|----------------------|----------------------------|------------------------|---|
| | | I_o Amps | P.I.V. Volts | Amps | V_F Volts | at I_F Amps | I_R μA | at V_R Volts | t_{rr} μs | |
| BY296 | BY296S | 2 | 100 | 70 | 1.3 | 3.0 | 10 | 100 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY297 | BY297S | 2 | 200 | 70 | 1.3 | 3.0 | 10 | 200 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY298 | BY298S | 2 | 400 | 70 | 1.3 | 3.0 | 10 | 400 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY299 | BY299S | 2 | 800 | 70 | 1.3 | 3.0 | 10 | 800 | 0.6 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |

Fast Silicon Rectifiers 3 A BY396 to BY399 (P2 Plastic Package) BY396S to BY399S (17-02 Plastic Package)

| Type | | Average Rectified Current at $T_A = 50^\circ\text{C}$ | Peak Inverse Voltage | Surge Forward Current Half Cycle 50 Hz | Max. Forward Voltage Drop | | Max. Reverse Current | Max. Reverse Recovery Time | | Conditions |
|-------|--------|---|----------------------|--|---------------------------|---------------|----------------------|----------------------------|------------------------|---|
| | | I_o Amps | P.I.V. Volts | Amps | V_F Volts | at I_F Amps | I_R μA | at V_R Volts | t_{rr} μs | |
| BY396 | BY396S | 3 | 100 | 100 | 1.2 | 5.0 | 10 | 100 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY397 | BY397S | 3 | 200 | 100 | 1.2 | 5.0 | 10 | 200 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY398 | BY398S | 3 | 400 | 100 | 1.2 | 5.0 | 10 | 400 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |
| BY399 | BY399S | 3 | 800 | 100 | 1.2 | 5.0 | 10 | 800 | 0.5 | $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$ |