



ALLIED ELEK & SEMICOND L2E D

OPERATING AND STORAGE TEMPERATURE -65°C ~ +175°C

T-01-01

| TYPE       | PIV<br>(Peak Inverse Voltage) | MAX AVG Rectify Current @ Half Wave Res Load 60 Hz |   |                | MAX FWD Peak Surge Current 1 ~ 60 Hz Superimposed | MAX Reverse Current @ PIV Voltage @ 25°C T <sub>A</sub> | MAX Forward Voltage @ 25°C T <sub>A</sub> |                |                 |                 |
|------------|-------------------------------|--|---|----------------|---|---|---|----------------|-----------------|-----------------|
|            |                               | I <sub>O</sub>                                     | @ | T <sub>A</sub> |   |   | I <sub>FM</sub> (Surge)                   | I <sub>R</sub> | I <sub>FM</sub> | V <sub>FM</sub> |
|            |                               | A <sub>AV</sub>                                    |   | °C             |   |   | A <sub>PK</sub>                           | μAdc           | A <sub>PK</sub> | V <sub>PK</sub> |
| BYW27-50   | 50                            | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-100  | 100                           | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-200  | 200                           | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-400  | 400                           | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-600  | 600                           | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-800  | 800                           | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BYW27-1000 | 1000                          | 1.0  |   | 70             | 50  | 0.20  | 1.0                                       | 1.0            |                 |                 |
| BY133      | 1300                          | 1.0  |   | 75             | 50  | 5.00  | 1.0                                       | 1.1            |                 |                 |
| EM513      | 1000                          | 1.0  |   | 75             | 50  | 5.00  | 1.0                                       | 1.1            |                 |                 |
| BY127M     | 1250                          | 1.0  |   | 75             | 50  | 5.00  | 1.0                                       | 1.1            |                 |                 |

3-5. Amperes - Plastic Rectifiers/DO-201AD Package

OPERATING AND STORAGE TEMPERATURE -65°C ~ +175°C

| TYPE      | PIV<br>(Peak Inverse Voltage) | MAX AVG Rectify Current @ Half Wave Res Load 60 Hz |   |                | MAX FWD Peak Surge Current 1 ~ 60 Hz Superimposed | MAX Reverse Current @ PIV Voltage @ 25°C T <sub>A</sub> | MAX Forward Voltage @ 25°C T <sub>A</sub> |                |                 |                 |
|-----------|-------------------------------|--|---|----------------|---|---|---|----------------|-----------------|-----------------|
|           |                               | I <sub>O</sub>                                     | @ | T <sub>A</sub> |   |   | I <sub>FM</sub> (Surge)                   | I <sub>R</sub> | I <sub>FM</sub> | V <sub>FM</sub> |
|           |                               | A <sub>AV</sub>                                    |   | °C             |   |   | A <sub>PK</sub>                           | μAdc           | A <sub>PK</sub> | V <sub>PK</sub> |
| BY251     | 200                           | 3.0  |   | 50             | 100   | 20  | 3.0                                       | 1.1            |                 |                 |
| BY252     | 400                           | 3.0  |   | 50             | 100   | 20  | 3.0                                       | 1.1            |                 |                 |
| BY253     | 600                           | 3.0  |   | 50             | 100   | 20  | 3.0                                       | 1.1            |                 |                 |
| BY254     | 800                           | 3.0  |   | 50             | 100   | 20  | 3.0                                       | 1.1            |                 |                 |
| BY255     | 1300                          | 3.0  |   | 50             | 100   | 20  | 3.0                                       | 1.1            |                 |                 |
| BY550-50  | 50                            | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY550-100 | 100                           | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY550-200 | 200                           | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY550-400 | 400                           | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY550-600 | 600                           | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY550-800 | 800                           | 5.0  |   | 60             | 300   | 20  | 5.0                                       | 1.1            |                 |                 |
| BY227     | 1200                          | 5.0  |   | 60             | 300   | 200   | 5.0                                       | 1.5            |                 |                 |
| BY228     | 1500                          | 1.75   |   | 60             | 300   | 10  | 5.0                                       | 1.5            |                 |                 |

1 Ampere - Recovery Silicon Rectifier/DO-41 Package

OPERATING AND STORAGE TEMPERATURE -65°C ~ +175°C

| TYPE  | PIV<br>(Peak Inverse Voltage) | MAX AVG Rectify Current @ Half Wave Res Load 60 Hz |   |                | MAX FWD Peak Surge Current 1 ~ 60 Hz Superimposed | MAX Reverse Current @ PIV Voltage @ 25°C T <sub>A</sub> | MAX Forward Voltage @ 25°C T <sub>A</sub> |                | MAX Reverse Recovery Time |                 |                 |
|-------|-------------------------------|--|---|----------------|---|---|---|----------------|---------------------------|-----------------|-----------------|
|       |                               | I <sub>O</sub>                                     | @ | T <sub>A</sub> |   |   | I <sub>FM</sub> (Surge)                   | I <sub>R</sub> |                           | I <sub>FM</sub> | V <sub>FM</sub> |
|       |                               | A <sub>AV</sub>                                    |   | °C             |   |   | A <sub>PK</sub>                           | μAdc           |                           | A <sub>PK</sub> | V <sub>PK</sub> |
| BA157 | 400                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 300                       |                 |                 |
| BA158 | 600                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 300                       |                 |                 |
| BA159 | 1000                          | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP643 | 50                            | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP644 | 100                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP645 | 225                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP646 | 300                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP647 | 400                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |
| IP648 | 500                           | 1.0  |   | 45             | 35  | 5.0   | 1.0                                       | 1.3            | 500                       |                 |                 |

3-5. Ampere - Recovery Silicon Rectifier/DO-201AD Package

OPERATING AND STORAGE TEMPERATURE -65°C ~ +175°C

| TYPE      | PIV<br>(Peak Inverse Voltage) | MAX AVG Rectify Current @ Half Wave Res Load 60 Hz |   |                | MAX FWD Peak Surge Current 1 ~ 60 Hz Superimposed | MAX Reverse Current @ PIV Voltage @ 25°C T <sub>A</sub> | MAX Forward Voltage @ 25°C T <sub>A</sub> |                | MAX Reverse Recovery Time |                 |                 |
|-----------|-------------------------------|--|---|----------------|---|---|---|----------------|---------------------------|-----------------|-----------------|
|           |                               | I <sub>O</sub>                                     | @ | T <sub>A</sub> |   |   | I <sub>FM</sub> (Surge)                   | I <sub>R</sub> |                           | I <sub>FM</sub> | V <sub>FM</sub> |
|           |                               | A <sub>AV</sub>                                    |   | °C             |   |   | A <sub>PK</sub>                           | μAdc           |                           | A <sub>PK</sub> | V <sub>PK</sub> |
| BY296     | 100                           | 2.0  |   | 50             | 70  | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY297     | 200                           | 2.0  |   | 50             | 70  | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY298     | 400                           | 2.0  |   | 50             | 70  | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY299     | 800                           | 2.0  |   | 50             | 70  | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY396     | 100                           | 3.0  |   | 50             | 100   | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY397     | 200                           | 3.0  |   | 50             | 100   | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY398     | 400                           | 3.0  |   | 50             | 100   | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| BY399     | 800                           | 3.0  |   | 50             | 100   | 10  | 3.0                                       | 1.3            | 500                       |                 |                 |
| MR850     | 50                            | 3.0  |   | 90             | 100   | 10  | 3.0                                       | 1.25           | 200                       |                 |                 |
| MR851     | 100                           | 3.0  |   | 90             | 100   | 10  | 3.0                                       | 1.25           | 200                       |                 |                 |
| MR852     | 200                           | 3.0  |   | 90             | 100   | 10  | 3.0                                       | 1.25           | 200                       |                 |                 |
| MR854     | 400                           | 3.0  |   | 90             | 100   | 10  | 3.0                                       | 1.25           | 200                       |                 |                 |
| MR855     | 600                           | 3.0  |   | 90             | 100   | 10  | 3.0                                       | 1.25           | 200                       |                 |                 |
| BY500-50  | 50                            | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |
| BY500-100 | 100                           | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |
| BY500-200 | 200                           | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |
| BY500-400 | 400                           | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |
| BY500-600 | 600                           | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |
| BY500-800 | 800                           | 5.0  |   | 90             | 100   | 10  | 5.0                                       | 1.5            | 200                       |                 |                 |