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# Rectifiers

## 1N645 Series - 400ma Rectifiers in D0-35 Package

| Type    | Peak Inverse Voltage (MIN.) PIV<br>Volts | Breakdown Voltage (MIN.)<br>Bv @ 100µA<br>Volts | Average Rectified Current I <sub>o</sub><br>25° C<br>Amps | Average Rectified Current I <sub>o</sub><br>150° C<br>Amps | Forward Voltage Drop (MAX.)<br>V <sub>F</sub><br>Volts | Reverse Current (MAX.)<br>I <sub>R</sub> @ PIV<br>25° C<br>µA | Reverse Current (MAX.)<br>I <sub>R</sub> @ PIV<br>150° C<br>µA | Surge Current (MAX.)<br>I <sub>F</sub> (surge)<br>(NOTE 1)<br>Amps | Junction Capacitance (MAX.)<br>C @ 4V<br>pF |
|---------|--|---|---|--|--|---|--|--|---|
| 1N645-1 | 225                                      | 270   | 0.4   | 0.15   | 0.80 - 1.0V  | .050  | 25   | 5  | 20  |
| 1N647-1 | 400                                      | 480   | 0.4   | 0.15   | MAX @  | .050  | 25   | 5  | 20  |
| 1N649-1 | 600                                      | 720   | 0.4   | 0.15   | 400mAdc  | .050  | 25   | 5  | 20  |
| PULSED  |  |   |   |  |  |   |  |  |   |
| 1N645   | 225                                      | 270   | 0.4   | 0.15   | 1.0V   | .025  | 15   | 5  | 20  |
| 1N647   | 400                                      | 480   | 0.4   | 0.15   | MAX @  | .025  | 15   | 5  | 20  |
| 1N649   | 600                                      | 720   | 0.4   | 0.15   | 400mAdc  | .050  | 25   | 5  | 20  |
| PULSED  |  |   |   |  |  |   |  |  |   |

NOTE 1: T<sub>A</sub> = 150° C, I<sub>o</sub> = 150mAdc, 10 surges of 8.3 msec

## 1N3611 Series - General Purpose Rectifiers in "A" Body Package

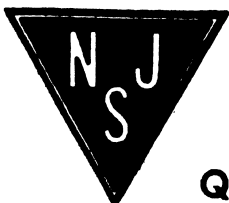
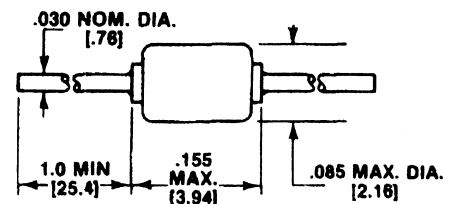
| Type   | Peak Inverse Voltage (MIN.) PIV<br>Volts | Breakdown Voltage (MIN.)<br>Bv @ 100µA<br>Volts | Average Rectified Current I <sub>o</sub><br>100° C<br>Amps | Average Rectified Current I <sub>o</sub><br>150° C<br>Amps | Forward Voltage Drop (MAX.)<br>V <sub>F</sub><br>Volts | Reverse Current (MAX.)<br>I <sub>R</sub> @ PIV<br>25° C<br>µA | Reverse Current (MAX.)<br>I <sub>R</sub> @ PIV<br>150° C<br>µA | Surge Current (MAX.)<br>(NOTE 1)<br>Amps |
|--------|--|---|--|--|--|---|--|--|
| 1N3611 | 200                                      | 240   | 1.0  | 0.3  | 1.1  | 1.0   | 300  | 30                                       |
| 1N3612 | 400                                      | 480   | 1.0  | 0.3  | 1.1  | 1.0   | 300  | 30                                       |
| 1N3613 | 600                                      | 720   | 1.0  | 0.3  | 1.1  | 1.0   | 300  | 30                                       |
| 1N3614 | 800                                      | 920   | 1.0  | 0.3  | 1.1  | 1.0   | 300  | 30                                       |

NOTE 1: T<sub>A</sub> = 150° C, F = 60 Hz, I<sub>o</sub> = 300mA, 10 surges of 8 msec. @ 1/minute

## MECHANICAL CONFIGURATIONS PHYSICAL DIMENSIONS

DIMENSIONS IN INCHES (MM)

PACKAGE A



Quality Semi-Conductors