

HIGH VOLTAGE DIODES – SURFACE MOUNT

1N6513US – 1N6517US

ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

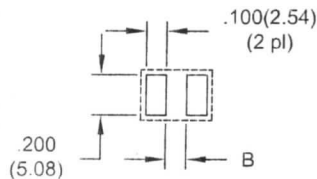
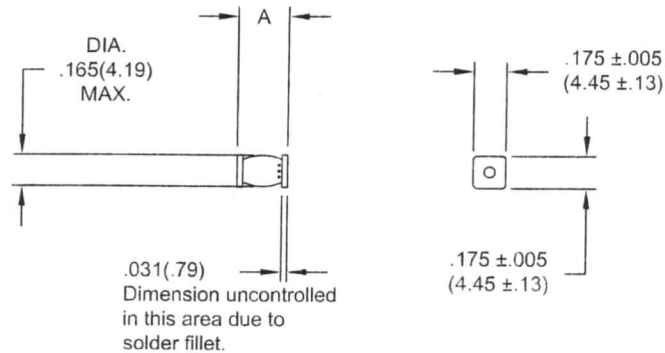
| Part Number | Working Reverse Voltage<br>(V <sub>rw</sub> ) | Average Rectified Current<br>(I <sub>o</sub> ) |      | Reverse Current<br>@ V <sub>rw</sub><br>(I <sub>r</sub> ) |    | Forward Voltage<br>(V <sub>f</sub> ) |      | 1 Cycle Surge Current<br>I <sub>p</sub> =8.3ms<br>(I <sub>fsm</sub> ) | Repetitive Surge Current<br>(I <sub>frm</sub> ) | Reverse Recovery Time<br>(3)<br>(T <sub>rr</sub> ) | Thermal Impd.<br>θ <sub>J-C</sub> | Junction Cap.<br>@ 50VDC<br>@ 1kHz<br>(C <sub>j</sub> ) |
|-------------|---|--|------|---|----|--------------------------------------|------|---|---|--|-----------------------------------|---|
|             |   | 55°C(1)  |      | 100°C(2)  |    | 25°C                                 |      | 25°C  | 25°C  | 25°C   | 25°C                              | 25°C  |
|             | Volts   | Amps   | Amps | μA  | μA | Volts                                | Amps | Amps  | Amps  | ns   | °C / W                            | pF  |
| 1N6513US    | 2000  | 5.0  | 3.3  | 1.00  | 25 | 3.5                                  | 2.0  | 100   | 15  | 70   | 4                                 | 25  |
| 1N6515US    | 3000  | 3.5  | 2.3  | 1.00  | 25 | 6.0                                  | 1.5  | 60  | 10  | 70   | 4                                 | 20  |
| 1N6517US    | 5000  | 2.0  | 1.3  | 1.00  | 25 | 8.0                                  | 1.0  | 40  | 8   | 70   | 4                                 | 16  |

(1)T<sub>C</sub>=55°C (2)T<sub>C</sub>=100°C (3)I<sub>f</sub>=0.5A, I<sub>r</sub>=1.0A, I<sub>rr</sub>=0.25A \*Op. Temp. = -55°C to +175°C. Stg. Temp. = -65°C to +200°C

Markings:  
 Three Dots for polarity.



| Part     | A                         | B          |
|----------|---------------------------|------------|
| 1N6513US | .240 ±.015<br>(6.10 ±.38) | .105(2.67) |
| 1N6515US | .260 ±.015<br>(6.60 ±.38) | .125(3.18) |
| 1N6517US | .280 ±.015<br>(7.11 ±.38) | .145(3.68) |



PAD LAYOUT

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