

# 2,000 V - 5,000 V Rectifiers

2.0 A - 5.0 A Forward Current

70 ns Recovery Time

1N6513U

1N6515U

1N6517U

SURFACE MOUNT  
HERMETICALLY SEALED



JANTX JANTXV

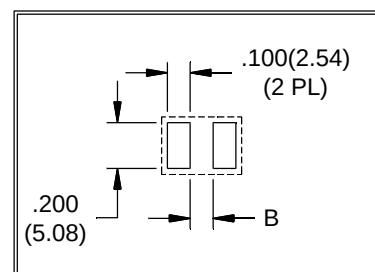
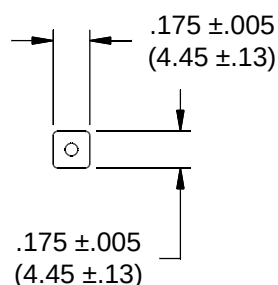
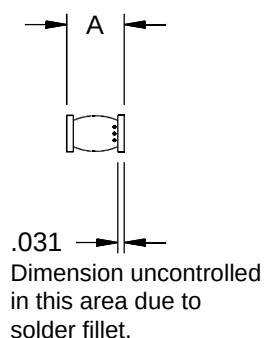
## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage | Average Rectified Current |          | Reverse Current @ Vrwm |       | Forward Voltage |      | 1 Cycle Surge Current tp=8.3ms (Ifsm) | Repetitive Surge Current (Ifrm) | Reverse Recovery Time (3) (Trr) | Thermal Impd. $\theta_{J-C}$ | Junction Cap. @50VDC @1kHz (Cj) |
|-------------|-------------------------|---------------------------|----------|------------------------|-------|-----------------|------|---------------------------------------|---------------------------------|---------------------------------|------------------------------|---------------------------------|
|             | (Vrwm)                  | (Io)                      |          | (Ir)                   |       | (Vf)            |      |                                       |                                 |                                 |                              |                                 |
|             | Volts                   | 55°C(1)                   | 100°C(2) | 25°C                   | 100°C | 25°C            | 25°C | 25°C                                  | 25°C                            | 25°C                            | 25°C                         | 25°C                            |
|             |                         | Amps                      | Amps     | μA                     | μA    | Volts           | Amps | Amps                                  | Amps                            | ns                              | °C/ W                        | pF                              |
| 1N6513U     | 2000                    | 5.0                       | 3.3      | 1.0                    | 25    | 3.5             | 2.0  | 100                                   | 15                              | 70                              | 4                            | 25                              |
| 1N6515U     | 3000                    | 3.5                       | 2.3      | 1.0                    | 25    | 6.0             | 1.5  | 60                                    | 10                              | 70                              | 4                            | 20                              |
| 1N6517U     | 5000                    | 2.0                       | 1.3      | 1.0                    | 25    | 8.0             | 1.0  | 40                                    | 8                               | 70                              | 4                            | 16                              |

(1)TC=55°C (2)TC=100°C (3)If=0.5A, Ir=1.0A, Irr=0.25A \*Op. Temp.= -65°C to +175°C Stg. Temp.= -65°C to +200°C

Markings:

Three Dots for polarity.



| Part    | A                      | B          |
|---------|------------------------|------------|
| 1N6513U | .235 ±.010 (5.97 ±.25) | .105(2.67) |
| 1N6515U | .255 ±.010 (6.48 ±.25) | .125(3.18) |
| 1N6517U | .275 ±.010 (6.99 ±.25) | .145(3.68) |



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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