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## High Voltage Rectifiers - Surface Mount

50mA - 250mA • 70ns • Hermetic

| ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS |  |  |          |  |       |                                      |    |   |   |  |                                   |   |
|--|--|--|----------|--|-------|--------------------------------------|----|---|---|--|-----------------------------------|---|
| Part Number                                    | Working Reverse Voltage<br>(V <sub>rrm</sub> ) | Average Rectified Current<br>(I <sub>o</sub> ) |          | Reverse Current<br>@ V <sub>rrm</sub><br>(I <sub>r</sub> ) |       | Forward Voltage<br>(V <sub>f</sub> ) |    | 1 Cycle Surge Current<br>I <sub>psm</sub><br>tp=8.3ms | 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   | 100°C | 25°C                                 |    | 25°C  | 25°C  | 25°C   | 25°C                              | 25°C  |
|  | Volts  | mA   | mA       | μA   | μA    | Volts                                | mA | Amps  | Amps  | ns   | °C/W                              | pF  |
| 1N8529U  | 2000   | 250  | 125      | 0.1  | 10    | 3.0                                  | 25 | 10  | 1.50  | 70   | 20                                | 4.0   |
| 1N8531U  | 3000   | 100  | 50       | 0.1  | 10    | 7.0                                  | 25 | 8   | 1.25  | 70   | 20                                | 2.0   |
| 1N8533U  | 5000   | 50   | 25       | 0.1  | 10    | 9.0                                  | 25 | 4   | 0.75  | 70   | 20                                | 1.0   |

Markings:  
 Three Dots for polarity.



| Part    | A                  | B          |
|---------|--------------------|------------|
| 1N8529U | .190(4.83)<br>MAX. | .110(2.79) |
| 1N8531U | .210(5.33)<br>MAX. | .130(3.30) |
| 1N8533U | .230(5.84)<br>MAX. | .150(3.81) |

