

**2,000 V - 10,000 V Rectifiers**  
**0.10 A - 0.5 A Forward Current**  
**70 ns Recovery Time**

**1N6521 1N6523**  
**1N6525 1N6527**

AXIAL LEADED  
 HERMETICALLY SEALED  
 MIL-PRF-19500/576



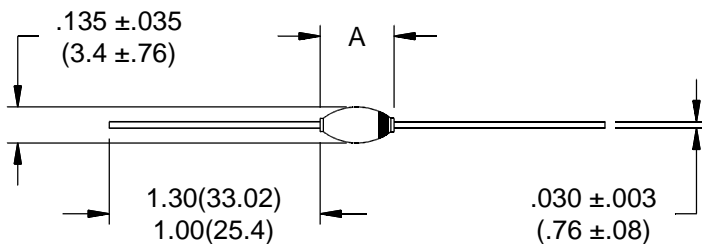
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**4**

**ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS**

Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current t <sub>p</sub> =8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impedance θ <sub>J-L</sub>			Junction Cap. @50VDC @ 1kHz (C <sub>j</sub> )
		55°C(1)	100°C(2)	25°C	100°C	25°C					L=000	L=.125	L=.250	
		Volts	Amps	Amps	µA	µA	Volts				Amps	°C/W	°C/W	
1N6521	2000	0.500	0.250	0.5	20	3.0	0.50	25	5	70	5	12	21.5	8
1N6523	3000	0.250	0.125	0.5	20	5.0	0.25	15	3	70	5	12	21.5	4
1N6525	5000	0.150	0.075	0.5	20	7.0	0.15	10	2	70	5	12	21.5	3
1N6527	10000	0.100	0.050	0.5	20	12.0	0.10	5	1	70	5	12	21.5	2

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)I<sub>f</sub>=125mA, I<sub>r</sub>=250mA, I<sub>rr</sub>=63mA • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



Part	A
1N6521	.220(5.59) MAX. .160(4.06) MIN.
1N6523	.240(6.10) MAX. .180(4.57) MIN.
1N6525	.260(6.60) MAX. .200(5.08) MIN.
1N6527	.320(8.13) MAX. .260(6.60) MIN.



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



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