

High Voltage Rectifiers - Axial Lead

Original Released: 07-17-07
Revised Date: 10-01-08

0.025A - 2.0A • 70ns • Hermetic • JANTX • JANTXV

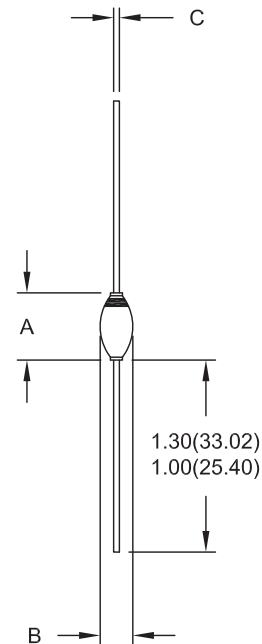
ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (Vrwm)	Average Rectified Current (Io)		Reverse Current @ Vrwm (Ir)		Forward Voltage (Vf)		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance θ_{J-L}			Junction Cap. @50VDC @ 1kHz (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C					25°C	25°C	25°C	
	Volts	Amps	Amps	μ A	μ A	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
1N6513	2000	2.000	1.500	1.0	25	3.5	2.000	80	15.00	70 (3)	3	6	12.0	25.0
1N6515	3000	1.500	1.000	1.0	25	6.0	1.500	60	10.00	70 (3)	3	6	12.0	20.0
1N6517	5000	1.000	0.500	1.0	25	8.0	1.000	40	8.00	70 (3)	3	6	12.0	16.0
1N6519	10000	0.500	0.250	1.0	25	13.0	0.500	25	5.00	70 (3)	3	6	12.0	8.0
1N6521	2000	0.500	0.250	0.5	20	3.0	0.500	25	5.00	70 (4)	5	12	21.5	8.0
1N6523	3000	0.250	0.125	0.5	20	5.0	0.250	15	3.00	70 (4)	5	12	21.5	4.0
1N6525	5000	0.150	0.075	0.5	20	7.0	0.150	10	2.00	70 (4)	5	12	21.5	3.0
1N6527	10000	0.100	0.050	0.5	20	12.0	0.100	5	1.00	70 (4)	5	12	21.5	2.0
1N6529	2000	0.250	0.125	0.1	10	3.0	0.025	10	1.50	70 (5)	18	30	50.0	4.0
1N6531	3000	0.100	0.050	0.1	10	7.0	0.025	8	1.25	70 (5)	18	30	50.0	2.0
1N6533	5000	0.050	0.025	0.1	10	9.0	0.025	4	0.75	70 (5)	18	30	50.0	1.0
1N6535	10000	0.025	0.012	0.1	10	14.0	0.025	2	0.38	70 (5)	18	30	50.0	0.5

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=0.5A, Ir=1.0A, Irr=0.25A (4) If=125mA, Ir=250mA, Irr=63mA
(5) If=12.5mA, Ir=25mA, Irr=6.25mA *Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



Part	A	B	C
1N6513	.310(7.82) MAX. / .250(6.35) MIN.	.185 ±.030 (4.7 ±.76)	.040 ±.003 (1.02 ±.08)
1N6515	.330(8.38) MAX. / .270(6.85) MIN.		
1N6517	.350(8.89) MAX. / .290(7.37) MIN.		
1N6519	.400(10.16) MAX. / .340(8.64) MIN.		
1N6521	.220(5.59) MAX. / .160(4.06) MIN.	.125 ±.035 (3.18 ±.89)	.030 ±.003 (.76 ±.08)
1N6523	.240(6.10) MAX. / .180(4.57) MIN.		
1N6525	.260(6.06) MAX. / .200(5.08) MIN.		
1N6527	.320(8.13) MAX. / .260(6.60) MIN.		
1N6529	.200(5.08) MAX. / .140(3.56) MIN.	.095 ±.035 (2.41 ±.89)	.020 ±.003 (.50 ±.08)
1N6531	.220(5.59) MAX. / .160(4.06) MIN.		
1N6533	.240(6.10) MAX. / .180(4.57) MIN.		
1N6535	.300(7.62) MAX. / .240(6.10) MIN.		



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



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