

HIGH VOLTAGE RECTIFIERS

70ns Recovery • Axial Leaded • Hermetic

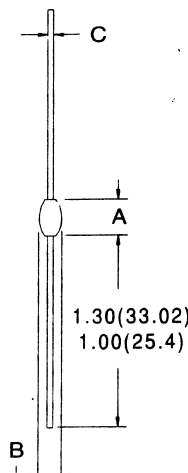
ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V _{rw})	Average Rectified Current (1) (I _o)		Reverse Current @ V _{rw} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current I _{ps} =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (2) (T _{rr})	Thermal Impedance (J-L)			Junction Capac. @ 50VDC @ 1kHz (C _j)
		55°C	100°C	25°C	100°C	25°C		25°C	25°C	25°C	°C/W			pF
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	D=0	D=.125	D=.250	
1N6512	1500	2.000	1.500	1.0	25	3.5	2.000	100	15.0	70 (2a)	3	6	12.0	25.0
1N6513	2000	2.000	1.500	1.0	25	3.5	2.000	100	15.0	70 (2a)	3	6	12.0	25.0
1N6514	2500	1.500	1.000	1.0	25	6.0	1.500	60	10.0	70 (2a)	3	6	12.0	20.0
1N6515	3000	1.500	1.000	1.0	25	6.0	1.500	60	10.0	70 (2a)	3	6	12.0	20.0
1N6516	4000	1.000	0.500	1.0	25	8.0	1.000	40	8.0	70 (2a)	3	6	12.0	16.0
1N6517	5000	1.000	0.500	1.0	25	8.0	1.000	40	8.0	70 (2a)	3	6	12.0	16.0
1N6518	7500	0.500	0.250	1.0	25	13.0	0.500	25	5.0	70 (2a)	3	6	12.0	8.0
1N6519	10000	0.500	0.250	1.0	25	13.0	0.500	25	5.0	70 (2a)	3	6	12.0	8.0
1N6520	1500	0.500	0.250	0.5	20	3.0	0.500	25	5.0	70 (2b)	5	12	21.5	8.0
1N6521	2000	0.500	0.250	0.5	20	3.0	0.500	25	5.0	70 (2b)	5	12	21.5	8.0
1N6522	2500	0.250	0.125	0.5	20	5.0	0.250	15	3.0	70 (2b)	5	12	21.5	4.0
1N6523	3000	0.250	0.125	0.5	20	5.0	0.250	15	3.0	70 (2b)	5	12	21.5	4.0
1N6524	4000	0.150	0.075	0.5	20	7.0	0.150	10	2.0	70 (2b)	5	12	21.5	3.0
1N6525	5000	0.150	0.075	0.5	20	7.0	0.150	10	2.0	70 (2b)	5	12	21.5	3.0
1N6526	7500	0.100	0.050	0.5	20	12.0	0.100	5	1.0	70 (2b)	5	12	21.5	2.0
1N6527	10000	0.100	0.050	0.5	20	12.0	0.100	5	1.0	70 (2b)	5	12	21.5	2.0
1N6528	1500	0.250	0.125	0.1	10	3.0	0.025	10	1.5	70 (2c)	18	30	50.0	4.0
1N6529	2000	0.250	0.125	0.1	10	3.0	0.025	10	1.5	70 (2c)	18	30	50.0	4.0
1N6530	2500	0.100	0.050	0.1	10	7.0	0.025	8	1.2	70 (2c)	18	30	50.0	2.0
1N6531	3000	0.100	0.050	0.1	10	7.0	0.025	8	1.2	70 (2c)	18	30	50.0	2.0
1N6532	4000	0.050	0.025	0.1	10	9.0	0.025	4	0.8	70 (2c)	18	30	50.0	1.0
1N6533	5000	0.050	0.025	0.1	10	9.0	0.025	4	0.8	70 (2c)	18	30	50.0	1.0
1N6534	7500	0.025	0.012	0.1	10	14.0	0.025	2	0.4	70 (2c)	18	30	50.0	0.5
1N6535	10000	0.025	0.012	0.1	10	14.0	0.025	2	0.4	70 (2c)	18	30	50.0	0.5

(1) @ T_L; L=.375" (2a) I_f=0.5A, I_r=1.0A, I_{rr}=0.25A
(2b) I_f=125mA, I_r=250mA, I_{rr}=63mA
(2c) I_f=12.5mA, I_r=25mA, I_{rr}=6.25mA

Operating Temp. = -65°C to +175°C
Storage Temp. = -65°C to +200°C

	A	B	C
1N6512	0.310(7.87) Max	0.185±0.030	0.040±0.003
1N6513	0.250(7.60) Min	(4.7±.76)	(1.02±.08)
1N6514	0.330(8.38) Max	0.185±0.030	0.040±0.003
1N6515	0.270(6.85) Min	(4.7±.76)	(1.02±.08)
1N6516	0.350(8.89) Max	0.185±0.030	0.040±0.003
1N6517	0.290(7.37) Min	(4.7±.76)	(1.02±.08)
1N6518	0.400(10.16) Max	0.185±0.030	0.040±0.003
1N6519	0.340(8.64) Min	(4.7±.76)	(1.02±.08)
1N6520	0.220(5.59) Max	0.135±0.035	0.030±0.003
1N6521	0.160(4.06) Min	(3.43±.89)	(.76±.08)
1N6522	0.240(6.10) Max	0.135±0.035	0.030±0.003
1N6523	0.180(4.57) Min	(3.43±.89)	(.76±.08)



	A	B	C
1N6524	0.260(6.60) Max	0.135±0.035	0.030±0.003
1N6525	0.200(5.08) Min	(3.43±.89)	(0.76±.08)
1N6526	0.320(8.13) Max	0.135±0.035	0.030±0.003
1N6527	0.260(6.60) Min	(3.43±.89)	(0.76±.08)
1N6528	0.200(5.08) Max	0.095±0.035	0.020±0.003
1N6529	0.140(3.56) Min	(2.41±.89)	(0.50±.08)
1N6530	0.220(5.59) Max	0.095±0.035	0.020±0.003
1N6531	0.160(4.06) Min	(2.41±.89)	(0.50±.08)
1N6532	0.240(6.10) Max	0.095±0.035	0.020±0.003
1N6533	0.180(4.57) Min	(2.41±.89)	(0.50±.08)
1N6534	0.300(7.62) Max	0.095±0.035	0.020±0.003
1N6535	0.240(6.10) Min	(2.41±.89)	(0.50±.08)