



180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
FX: 603-964-3168
WWW.PDEELECTRONICS.COM

Unidirectional Transient Voltage Suppressor

1500 Watt

FEATURES:

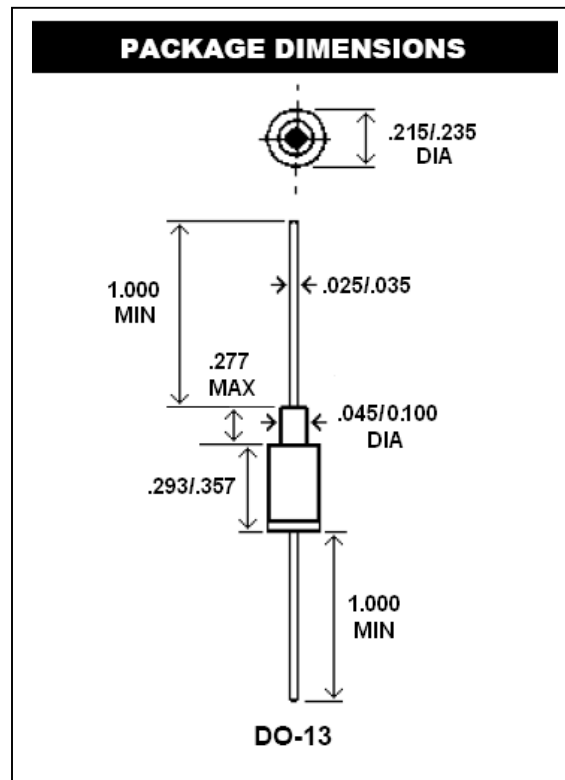
- Hermetically Sealed
- Breakdown Voltage Range 6.12-380 Volts
- Excellent Clamping Capability
- Unidirectional
- 100% Surge Tested

MAXIMUM RATING

- Peak Pulse Power: 1500 Watts
- 1 Watt Steady State
- Theoretical Response Time: 1×10^{-12} seconds
- Operating and Storage Temperature: -65°C to $+175^{\circ}\text{C}$

MECHANICAL CHARACTERISTICS

- Case: Metal Hermetically Sealed DO-13 Package
- Terminals: Axial Leads, Solderable
- Weight: ~1.5 grams





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TRANSIENT SUPPRESSORS
1.5 KW D0-13 (METAL CASE)

D013	REVERSE STAND-OFF VOLTAGE V _R VOLTS	BREAKDOWN VOLTAGE V _B		I _T mA	MAXIMUM CLAMPING VOLTAGE V _C (1 mSEC) VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT I _R μA	MAXIMUM PEAK PULSE CURRENT I _{PP} ** A	MAXIMUM TEMPERATURE COEFFICIENT OF BV %/°C
		BY VOLTS						
1N5555	30.5	33.0		1	47.5	5	32	.093
1N5556	40.3	43.7		1	63.5	5	24	.094
1N5557	49.0	54.0		1	78.5	5	19	.096
1N5558	175.0	191.0		1	265.0	5	5.7	.100
1N5629	5.50	6.12	7.48	10	10.8	1000	139	.057
1N5629A	5.80	6.45	7.14	10	10.5	1000	143	.057
1N5630	6.05	6.75	8.25	10	11.7	500	128	.061
1N5630A	6.40	7.13	7.88	10	11.3	500	132	.061
1N5631	6.63	7.38	9.02	10	12.5	200	120	.065
1N5631A	7.02	7.79	8.61	10	12.1	200	124	.065
1N5632	7.37	8.19	10.0	1	13.8	50	109	.068
1N5632A	7.78	8.65	9.55	1	13.4	50	112	.068
1N5633	8.10	9.00	11.0	1	15.0	50	100	.073
1N5633A	8.55	9.5	10.5	1	14.5	10	103	.073
1N5634	8.92	9.9	12.1	1	16.2	5	93	.075
1N5634A	9.40	10.5	11.6	1	15.6	5	96	.075
1N5635	9.72	10.8	13.2	1	17.3	5	87	.078
1N5635A	10.2	11.4	12.6	1	16.7	5	90	.078
1N5636	10.5	11.7	14.3	1	19.0	5	79	.081
1N5636A	11.1	12.4	13.7	1	18.2	5	82	.081
1N5637	12.1	13.5	16.5	1	22.0	5	68	.084
1N5637A	12.8	14.3	15.8	1	21.2	5	71	.084
1N5638	12.9	14.4	17.6	1	23.5	5	64	.086
1N5638A	13.6	15.2	16.8	1	22.5	5	67	.086
1N5639	14.5	16.2	19.8	1	26.5	5	56.5	.088
1N5639A	15.3	17.1	18.0	1	25.2	5	59.5	.088
1N5640	16.2	18.0	22.0	1	29.1	5	51.5	.090
1N5640A	17.1	19.0	21.0	1	27.7	5	54	.090
1N5641	17.8	19.8	24.2	1	31.9	5	47	.092
1N5641A	18.8	20.9	23.1	1	30.6	5	49	.092
1N5642	19.4	21.6	26.4	1	34.7	5	43	.094
1N5642A	20.5	22.8	25.2	1	33.2	5	45	.094
1N5643	21.8	24.3	29.7	1	39.1	5	38.5	.096
1N5643A	23.1	25.7	28.4	1	37.5	5	40	.096
1N5644	24.3	27.0	33.0	1	43.5	5	34.5	.097
1N5644A	25.6	28.5	31.5	1	41.4	5	36	.097
1N5645	26.8	29.7	36.3	1	47.7	5	31.5	.098
1N5645A	28.2	31.4	34.7	1	45.7	5	33	.098
1N5646	29.1	32.4	39.6	1	52.0	5	29	.099
1N5646A	30.8	34.2	37.8	1	49.9	5	30	.099
1N5647	31.6	35.1	42.9	1	56.4	5	26.5	.100
1N5647A	33.3	37.1	41.0	1	53.9	5	28	.100
1N5648	34.8	38.7	47.3	1	61.9	5	24	.101
1N5648A	36.8	40.9	45.2	1	59.3	5	25.3	.101
1N5649	38.1	42.3	51.7	1	67.8	5	22.2	.101

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D013	REVERSE STAND-OFF VOLTAGE V _R VOLTS	BREAKDOWN VOLTAGE Φ		I _T mA	MAXIMUM CLAMPING VOLTAGE @ I _{op} (1 mSEC) V _C VOLTS	MAXIMUM REVERSE LEAKAGE @ V _R I _R μA	MAXIMUM PEAK PULSE CURRENT I _{op} ** A	MAXIMUM TEMPERATURE COEFFICIENT OF BV %/°C
		BY VOLTS						
1N5649A	40.2	44.7	— 49.4	1	64.8	5	21.2	.101
1N5650	41.3	45.9	— 56.1	1	73.5	5	20.4	.102
1N5650A	43.6	48.5	— 53.6	1	70.1	5	21.4	.102
1N5651	45.4	50.4	— 61.6	1	80.5	5	18.6	.103
1N5651A	47.8	53.2	— 58.8	1	77.0	5	19.5	.103
1N5652	50.2	55.8	— 68.2	1	89.0	5	16.9	.104
1N5652A	53.0	58.9	— 65.1	1	85.0	5	17.7	.104
1N5653	55.1	61.2	— 74.8	1	98.0	5	15.3	.104
1N5653A	58.1	64.6	— 71.4	1	92.0	5	16.3	.104
1N5654	60.7	67.5	— 82.5	1	108.0	5	13.9	.105
1N5654A	64.1	71.3	— 78.8	1	103.0	5	14.6	.105
1N5655	66.4	73.8	— 90.2	1	118.0	5	12.7	.105
1N5655A	70.1	77.9	— 86.1	1	113.0	5	13.3	.105
1N5656	73.7	81.9	— 100.0	1	131.0	5	11.4	.106
1N5656A	77.8	86.5	— 95.5	1	125.0	5	12.0	.106
1N5657	81.0	90.0	— 110.0	1	144.0	5	10.4	.106
1N5657A	85.5	95.0	— 105.0	1	137.0	5	11.0	.106
1N5658	89.2	99.0	— 121.0	1	158.0	5	9.5	.107
1N5658A	94.0	105.0	— 116.0	1	152.0	5	9.9	.107
1N5659	97.2	108.0	— 132.0	1	173.0	5	8.7	.107
1N5659A	102.0	114.0	— 126.0	1	165.0	5	9.1	.107
1N5660	105.0	117.0	— 143.0	1	287.0	5	8.0	.107
1N5660A	111.0	124.0	— 137.0	1	279.0	5	8.4	.107
1N5661	121.0	135.0	— 165.0	1	215.0	5	7.0	.108
1N5661A	128.0	143.0	— 158.0	1	207.0	5	7.2	.108
1N5662	130.0	144.0	— 176.0	1	230.0	5	6.5	.108
1N5662A	136.0	152.0	— 168.0	1	219.0	5	6.8	.108
1N5663	138.0	153.0	— 187.0	1	244.0	5	6.2	.108
1N5663A	145.0	162.0	— 179.0	1	234.0	5	6.4	.108
1N5664	146.0	162.0	— 198.0	1	258.0	5	5.8	.108
1N5664A	154.0	171.0	— 189.0	1	246.0	5	6.1	.108
1N5665	162.0	180.0	— 220.0	1	287.0	5	5.2	.108
1N5665A	171.0	190.0	— 210.0	1	274.0	5	5.5	.108
1.5S220	175.0	198.0	— 242.0	1	344.0	5	4.3	.110
1.5S220A	185.0	209.0	— 231.0	1	328.0	5	4.6	.110
1.5S250	202.0	225.0	— 275.0	1	360.0	5	5.0	.110
1.5S250A	214.0	237.0	— 253.0	1	344.0	5	5.0	.110
1.5S300	243.0	270.0	— 330.0	1	430.0	5	5.0	.110
1.5S300A	256.0	285.0	— 315.0	1	414.0	5	5.0	.110
1.5S350	284.0	315.0	— 385.0	1	504.0	5	4.0	.110
1.5S350A	300.0	333.0	— 368.0	1	482.0	5	4.0	.110
1.5S400	324.0	360.0	— 440.0	1	574.0	5	4.0	.110
1.5S400A	342.0	380.0	— 420.0	1	548.0	5	4.0	.110
1N5907	5.0	6.0		1	8.6	300	165	.06
S5907	5.0	6.0		1	8.6	300	165	.06
	5.4	6.0		1	8.5	100	120	.06
	5.4	6.0		1	8.5	100	120	.06

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