



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

Bipolar Transient Voltage Suppressor

1N60 Series

FEATURES:

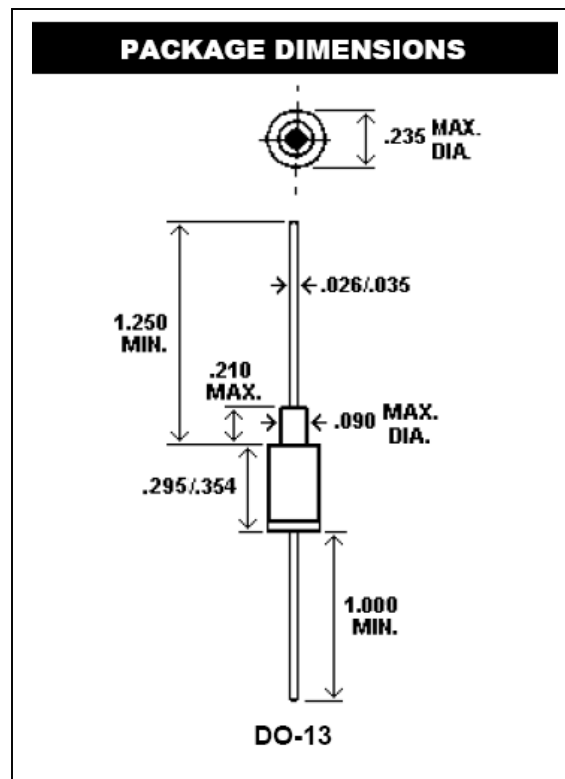
- Hermetically Sealed
- Breakdown Voltage Range 6.8-200 Volts
- Excellent Clamping Capability
- Low Zener Impedance
- 100% Surge Tested
- Bi-Directional

MAXIMUM RATING

- Peak Pulse Power: 1500 Watts
- 1 Watt Steady State
- Theoretical Response Time: 1×10^{-12} seconds
- Operating and Storage Temperature: -55°C to $+150^{\circ}\text{C}$

MECHANICAL CHARACTERISTICS

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



Specifications subject to change without notice to ensure a better product

PD&E Electronics 180 Lafayette Rd. North Hampton, NH 03862
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ELECTRICAL CHARACTERISTICS @ 25°C (Test Both Polarities)

JEDEC Type No.	Rated Standoff Voltage V_{WM}	Breakdown Voltage $V_{(BR)}$			Maximum Clamping Voltage $V_C @ I_{PP}$	Maximum Standby Current $I_D @ V_{WM}$	Maximum Peak Pulse Current I_{PP}	Maximum Temperature Coefficient of $V_{(BR)}$
		$V_{(BR)}$ min	$V_{(BR)}$ max	@ $I_{(BR)}$				
	Volts	Volts	Volts	mA	Volts	μA	Amps	$\alpha_{V(BR)}$ %/°C
1N6036	5.5	6.75	8.25	10	11.7	1000	128	.061
1N6036A	6.0	7.13	7.88	10	11.3	1000	132	.061
1N6037	6.5	7.38	9.02	10	12.5	500	120	.065
1N6037A	7.0	7.79	8.61	10	12.1	500	124	.065
1N6038	7.0	8.19	10.00	10	13.8	200	109	.068
1N6038A	7.5	8.65	9.55	10	13.4	200	112	.068
1N6039	8.0	9.0	11.0	1	15.0	50	100	.073
1N6039A	8.5	9.5	10.5	1	14.5	50	103	.073
1N6040	8.5	9.9	12.1	1	16.2	10	93	.075
1N6040A	9.0	10.5	11.6	1	15.6	10	96	.075
1N6041	9.0	10.8	13.2	1	17.3	5	87	.078
1N6041A	10.0	11.4	12.6	1	16.7	5	90	.078
1N6042	10.0	11.7	14.3	1	19.0	5	79	.081
1N6042A	11.0	12.4	13.7	1	18.2	5	82	.081
1N6043	11.0	13.5	16.5	1	22.0	5	68	.084
1N6043A	12.0	14.3	15.8	1	21.2	5	71	.084
1N6044	12.0	14.4	17.5	1	23.5	5	64	.086
1N6044A	13.0	15.2	16.8	1	22.5	5	67	.086
1N6045	14.0	16.2	19.8	1	26.5	5	56.5	.088
1N6045A	15.0	17.1	18.9	1	25.2	5	59.5	.088
1N6046	16.0	18.0	22.0	1	29.1	5	51.5	.090
1N6046A	17.0	19.0	21.0	1	27.7	5	54	.090
1N6047	17.0	19.8	24.2	1	31.9	5	47	.092
1N6047A	18.0	20.9	23.1	1	30.6	5	49	.092
1N6048	19.0	21.6	26.4	1	34.7	5	43	.094
1N6048A	20.0	22.8	25.2	1	33.2	5	45	.094
1N6049	21.0	24.3	29.7	1	39.1	5	38.5	.095
1N6049A	22.0	25.7	28.4	1	37.5	5	40	.096
1N6050	24.0	27.0	33.0	1	43.5	5	34.5	.097
1N6050A	25.0	28.5	31.5	1	41.4	5	36	.097
1N6051	26.0	29.7	36.3	1	47.7	5	31.5	.098
1N6051A	28.0	31.4	34.7	1	45.7	5	33	.098
1N6052	29.0	32.4	39.6	1	52.0	5	29	.099
1N6052A	30.0	34.2	37.8	1	49.9	5	30	.099
1N6053	31.0	35.1	42.9	1	56.4	5	26.5	.100
1N6053A	33.0	37.1	41.0	1	53.9	5	28	.100
1N6054	34.0	38.7	47.3	1	61.9	5	24	.101
1N6054A	36.0	40.9	45.2	1	59.3	5	25.3	.101
1N6055	38.0	42.3	51.7	1	67.8	5	22.2	.101
1N6055A	40.0	44.7	49.4	1	64.8	5	23.2	.101
1N6056	41.0	45.9	56.1	1	73.5	5	20.4	.102
1N6056A	43.0	48.5	53.6	1	70.1	5	21.4	.102
1N6057	45.0	50.4	61.6	1	80.5	5	18.6	.103
1N6057A	47.0	53.2	58.8	1	77.0	5	19.5	.103
1N6058	48.0	55.8	68.2	1	89.0	5	16.9	.104
1N6058A	53.0	58.9	65.1	1	85.0	5	17.7	.104
1N6059	55.0	61.2	74.8	1	98.0	5	15.3	.104
1N6059A	58.0	64.6	71.4	1	92.0	5	16.3	.104
1N6060	60.0	67.5	82.5	1	108.0	5	13.9	.105
1N6060A	64.0	71.3	78.8	1	103.0	5	14.6	.105
1N6061	66.0	73.8	90.2	1	118.0	5	12.7	.105
1N6061A	70.0	77.9	86.1	1	113.0	5	13.3	.105



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		$V_{(BR)}$ min	$V_{(BR)}$ max	@ $I_{(BR)}$				
	Volts	Volts	Volts	mA	Volts	μA	Amps	Volts
1N6062	73.0	81.9	100.0	1	131.0	5	11.4	.106
1N6062A	75.0	86.5	95.5	1	125.0	5	12.0	.106
1N6063	81.0	90.0	110.0	1	144.0	5	10.4	.106
1N6063A	82.0	95.0	105.0	1	137.0	5	11.0	.106
1N6064	90.0	99.0	121.0	1	158.0	5	9.5	.107
1N6064A	94.0	105.0	116.0	1	152.0	5	9.9	.107
1N6065	95.0	108.0	132.0	1	176.0	5	8.5	.107
1N6065A	100.0	114.0	126.0	1	168.0	5	8.9	.107
1N6066	105.0	117.0	143.0	1	191.0	5	7.8	.107
1N6066A	110.0	124.0	137.0	1	182.0	5	8.2	.107
1N6067	121.0	135.0	165.0	1	223.0	5	6.7	.108
1N6067A	128.0	143.0	158.0	1	213.0	5	7.0	.108
1N6068	137.0	153.0	187.0	1	258.0	5	5.8	.108
1N6068A	145.0	162.0	179.0	1	245.0	5	6.1	.108
1N6069	145.0	162.0	198.0	1	274.0	5	5.5	.108
1N6069A	150.0	171.0	189.0	1	261.0	5	5.7	.108
1N6070	155.0	171.0	210.0	1	292.0	5	5.1	.108
1N6070A	160.0	181.0	200.0	1	278.0	5	5.4	.108
1N6071	165.0	180.0	220.0	1	308.0	5	4.9	.108
1N6071A	170.0	190.0	210.0	1	294.0	5	5.1	.108
1N6072	175.0	198.0	242.0	1	344.0	5	4.3	.108
1N6072A	185.0	209.0	231.0	1	328.0	5	4.6	.108