

New Jersey Semi-Conductor Products, Inc.

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1N6138 thru 1N6173 1500W Bipolar Transient Voltage Suppressors

Electrical Specifications

Electrical specifications @ $T_A = 25^\circ\text{C}$ unless otherwise specified.

Device Type	Minimum Breakdown Voltage $V_{(BR)} @ I_{(BR)}$	Test Current $I_{(BR)}$	Working Pk. Reverse Voltage V_{RWM}	Maximum Reverse Current I_R	Maximum Clamping Voltage $V_C @ I_P$	Maximum Pk. Pulse Current I_P $T_P = ^{(1)}$	Temp. Coeff. of $V_{(BR)}$ $\alpha_{(VZ)}$	Maximum Reverse Current $I_{R2} @ 150^\circ\text{C}$
	Volts	mA	Volts	μA	Volts	Amps	%/ $^\circ\text{C}$	μA
1N6138	6.12	175	5.2	500	11.0	136.4	0.05	12,000
1N6139	6.75	175	5.7	300	11.8	127.1	0.06	3,000
1N6140	7.38	150	6.2	100	12.7	118.1	0.06	2,000
1N6141	8.19	150	6.9	100	14.0	107.1	0.06	1,200
1N6142	9.0	125	7.6	100	15.2	98.7	0.07	800
1N6143	9.9	125	8.4	20	16.3	92.0	0.07	800
1N6144	10.8	100	9.1	20	17.7	84.7	0.07	600
1N6145	11.7	100	9.9	20	19.0	78.9	0.08	600
1N6146	13.5	75	11.4	20	21.9	68.5	0.08	400
1N6147	14.4	75	12.2	20	23.4	64.1	0.08	400
1N6148	16.2	65	13.7	10	26.3	57.0	.085	400
1N6149	18.0	65	15.2	5	29.0	51.7	.085	400
1N6150	19.8	50	16.7	5	31.9	47.0	.085	400
1N6151	21.6	50	18.2	5	34.8	43.1	.09	400
1N6152	24.3	50	20.6	5	39.2	38.3	.09	400
1N6153	27.0	40	22.8	5	43.6	34.4	.09	400
1N6154	29.7	40	25.1	5	47.9	31.3	.095	400
1N6155	32.4	30	27.4	5	52.3	28.7	.095	400



Quality Semi-Conductors

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Device Type	Minimum Breakdown Voltage $V_{(BR)} @ I_{(BR)}$	Test Current $I_{(BR)}$	Working Pk. Reverse Voltage V_{RWM}	Maximum Reverse Current I_{R1}	Maximum Clamping Voltage $V_C @ I_P$	Maximum Pk. Pulse Current $I_P = {}^{(1)}$ T_P	Temp. Coeff. of $V_{(BR)}$ $\alpha_{(VZ)}$	Maximum Reverse Current $I_{R2} @ 150^\circ\text{C}$
	Volts	mA	Volts	μA	Volts	Amps	$\%/^\circ\text{C}$	μA
1N6156	35.1	30	29.7	5	56.2	26.7	0.095	400
1N6157	38.7	30	32.7	5	62.0	24.2	0.095	400
1N6158	42.3	25	35.8	5	67.7	22.2	0.095	400
1N6159	45.9	25	38.8	5	73.5	20.4	0.095	400
1N6160	50.4	20	42.6	5	80.7	18.6	0.095	400
1N6161	55.8	20	47.1	5	89.3	16.8	.100	400
1N6162	61.2	20	51.7	5	98.0	15.3	.100	400
1N6163	67.5	20	56.0	5	108.1	13.9	.100	400
1N6164	73.8	15	62.2	5	118.2	12.7	.100	400
1N6165	81.9	15	69.2	5	131.1	11.4	.100	400
1N6166	90.0	12	76.0	5	144.1	10.4	.100	400
1N6167	99.0	12	83.6	5	158.5	9.5	.100	400
1N6168	108.0	10	91.2	5	172.9	8.7	.100	400
1N6169	117.0	10	98.8	5	187.3	8.0	.100	400
1N6170	135.0	8	114.0	5	216.2	6.9	.100	400
1N6171	144.0	8	121.6	5	228.8	6.6	.100	400
1N6172	162.0	5	136.8	5	257.4	5.8	.100	400
1N6173	180.0	5	152.0	5	286.0	5.2	.100	400

