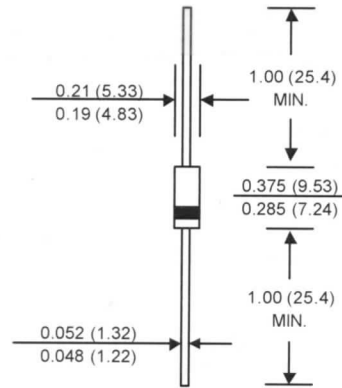


New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960



1N6138A
Thru
1N6173A

Dimensions in inches and (millimeters)

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power ($t_p = 10 \times 1000\mu s$)	Ppk	1500	Watts
Operating Temperature	T_j	-65 to +175	$^{\circ}C$
Storage Temperature	T_{stg}	-65 to +175	$^{\circ}C$
Steady-State Power Dissipation @ $T_L = 75^{\circ}C$ (3/8")	PD	5	Watts

ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise specified)

DEVICE TYPE	REVERSE STAND-OFF VOLTAGE V_{RWM}	REVERSE LEAKAGE CURRENT I_R	MINIMUM BREAKDOWN VOLTAGE $V_{BR} @ I_T$	TEST CURRENT I_T	MAXIMUM CLAMPING VOLTAGE $V_C @ I_{pp}$	PEAK PULSE CURRENT I_{pp} $t_p = 1mS$	TEMPERATURE COEFFICIENT OF V_{BR} αV_Z	MAXIMUM REVERSE LEAKAGE CURRENT (I_{R2}) $T_A = +150^{\circ}C$
	(V)	(μA)	(V)	(mA)	(V)	(A)	% / $^{\circ}C$	(A)
1N6138A	5.2	500	6.46	175	10.5	142.8	0.05	12000
1N6139A	5.7	300	7.13	175	11.2	133.9	0.06	3000
1N6140A	6.2	100	7.79	150	12.1	124.0	0.06	2000
1N6141A	6.9	100	8.65	150	13.4	111.9	0.06	1200
1N6142A	7.6	100	9.50	125	14.5	103.4	0.07	800
1N6143A	8.4	20	10.45	125	15.6	96.2	0.07	800
1N6144A	9.1	20	11.40	100	16.9	88.8	0.07	600
1N6145A	9.9	20	12.35	100	18.2	82.4	0.08	600
1N6146A	11.4	20	14.25	75	21.0	71.4	0.08	400
1N6147A	12.2	20	15.20	75	22.3	67.3	0.08	400
1N6148A	13.7	10	17.10	65	25.1	59.8	0.085	400
1N6149A	15.2	5	19.0	65	27.7	54.2	0.085	400
1N6150A	16.7	5	20.9	50	30.5	49.2	0.085	400
1N6151A	18.2	5	22.8	50	33.3	45.0	0.09	400
1N6152A	20.6	5	25.7	50	37.4	40.1	0.09	400
1N6153A	22.8	5	28.5	40	41.6	36.0	0.09	400
1N6154A	25.1	5	31.4	40	45.7	32.8	0.095	400
1N6155A	27.4	5	34.2	30	49.9	30.1	0.095	400
1N6156A	29.7	5	37.1	30	53.6	28.0	0.095	400
1N6157A	32.7	5	40.9	30	59.1	25.4	0.095	400
1N6158A	35.8	5	44.7	25	64.6	23.2	0.095	400
1N6159A	38.8	5	48.5	25	70.1	21.4	0.095	400
1N6160A	42.6	5	53.2	20	77.0	19.5	0.095	400
1N6161A	47.1	5	58.9	20	85.3	17.6	0.100	400
1N6162A	51.7	5	64.6	20	97.1	15.4	0.100	400
1N6163A	56.0	5	71.3	20	103.1	14.5	0.100	400
1N6164A	62.2	5	77.9	15	112.8	13.3	0.100	400
1N6165A	69.2	5	86.5	15	125.1	12.0	0.100	400
1N6166A	76.0	5	95.0	12	137.6	10.9	0.100	400
1N6167A	83.6	5	104.5	12	151.3	9.9	0.100	400
1N6168A	91.2	5	114.0	10	165.1	9.1	0.100	400
1N6169A	98.8	5	123.5	10	178.8	8.4	0.105	400
1N6170A	114.0	5	142.5	8	206.3	7.3	0.105	400
1N6171A	121.6	5	152.0	8	218.4	6.9	0.105	400
1N6172A	136.8	5	171.0	5	245.7	6.1	0.110	400
1N6173A	152.0	5	190.0	5	273.0	5.5	0.110	400

1. Non-A Part has 5% higher clamping voltage, 5% lower minimum breakdown voltage, and 5% lower peak pulse current.



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors