

MAXIMUM RATINGS

Parameters/Test Conditions	Symbol	Value	Unit
Junction and Storage Temperature	T_J and T_{STG}	-55 to +175	°C
Peak Pulse Power @ T _L = +25 °C ⁽¹⁾	P _{PP}	1500	W
Rated Average Power Dissipation @ $T_L \leq +125 {}^{\circ}C^{(2)}$	P _{M(AV)}	1	W
Solder Temperature @ 10 s	T _{SP}	260	°C

Notes: 1. At 10/1000 us with repetition rate of 0.01% or less (see Figures 1, 2, & 4).

2. At 10 mm from body (see derating in Figure 3 and note below).

MECHANICAL and PACKAGING

- CASE: DO-13 (DO-202AA), welded, hermetically sealed metal and glass.
- TERMINALS: All external metal surfaces are tin-lead plated and solderable per MIL-STD-750 method 2026.
- MARKING: Part number.
- POLARITY: Not applicable for bidirectional TVS.
- TAPE & REEL option: Standard per EIA-296 (add "TR" suffix to part number). Consult factory for quantities.
- WEIGHT: Approx 1.4 grams.
- See <u>Package Dimensions</u> on last page.



SYMBOLS & DEFINITIONS						
Symbol	Definition					
V _{WM}	Standoff Voltage: Applied Reverse Voltage to assure a nonconductive condition.					
V _(BR)	Breakdown Voltage: This is the Breakdown Voltage the device will exhibit at 25 °C.					
Vc	Maximum Clamping Voltage: The maximum peak voltage appearing across the TVS when subjected to the peak pulse current in a one millisecond time interval. The peak pulse voltage is the combination of voltage rise due to both the series resistance and thermal rise and positive temperature coefficient ($\alpha_{V(BR)}$).					
I _{PP}	Peak Pulse Current: The peak current during the impulse. (See Figure 2)					
P _{PP}	Peak Pulse Power: The pulse power as determined by the product of V _C and I _{PP} .					
I _D	Standby Current: The current at the standoff voltage (V _{WM}).					
I _(BR)	Breakdown Current: The current used for measuring Breakdown Voltage (V _(BR)).					



No. V (μειρικα) V (μειρικα) C (See Fig. 2) N0036 5.5 6.75 8.25 10 11.7 10000 128 .061 1N8036 5.5 6.73 8.25 10 11.7 10000 128 .061 1N8037 6.5 7.38 9.02 10 12.5 500 124 .065 1N8038 7.0 8.19 10.00 10 13.8 200 108 .068 1N8038 7.0 8.19 10.00 11.3 4.200 103 .073 1N8038 8.5 9.5 10.5 1 14.5 50 103 .073 1N8040 8.5 9.9 12.1 1 15.6 10 96 .075 1N8041 9.0 10.8 13.2 1 17.3 5 87 .078 1N8042 10.0 11.7 14.3 1 19.0 5 79 .081		Rated Standoff Voltage V _{WM}	E	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)
Voits Voits voits mA Voits μ_A Amps $guge)$ 1N6036 5.5 6.75 8.25 10 11.7 1000 128 .061 1N6036 6.0 7.13 7.88 10 11.3 1000 122 .061 1N6037 6.5 7.38 9.02 10 12.5 500 120 .065 1N6038 7.0 7.79 8.61 10 13.8 200 109 .068 1N6038 8.5 9.5 10.5 1 14.5 50 100 .073 1N6040 8.5 9.9 12.1 1 16.2 10 93 .075 1N6041 9.0 10.8 13.2 1 17.3 5 87 .078 1N6042 10.0 11.7 14.3 19.0 5 79 .081 1N6042 10.0 12.4 13.7 1 18.0 5	No.		V (BR)min	V _{(BR)max}	@ I _(BR)			(See <u>Fig. 2</u>)	
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$		Volts	Volts	Volts	mA	Volts	μA	Amps	α _{V(BR)} %/°C
**1N6036A 6.0 7.13 7.88 10 11.3 1000 132 .061 **1N6037A 7.0 7.73 8.61 10 12.1 500 120 .065 *1N6038A 7.5 8.65 9.55 10 13.4 200 112 .066 *1N6039A 8.5 9.5 10.5 1 14.5 50 100 .073 *1N6040A 9.0 10.5 11.6 1 15.6 10 93 .075 *1N6040A 9.0 10.5 11.6 1 15.6 10 96 .075 *1N6041A 10.0 11.4 12.6 1 16.7 5 90 .078 *1N6042A 11.0 11.4 12.6 1 16.7 5 90 .078 *1N6042A 11.0 12.4 13.7 1 18.2 5 6 64 .086 *1N6043A 12.0 14.3 15.8<	1N6036	5.5	6.75	8.25	10	11.7	1000	128	.061
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	*1N6036A	6.0	7.13	7.88	10	11.3	1000	132	.061
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6037	6.5	7.38	9.02	10	12.5	500	120	.065
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	*1N6037A	7.0	7.79	8.61	10	12.1	500	124	.065
INB039A 7.3 6.60 9.55 10 13.4 200 112 .008 INB039A 8.5 9.5 10.5 1 14.5 50 100 .073 INB0400A 9.0 10.5 11.6 1 15.6 10 93 .075 INB041 9.0 10.8 11.2 1 17.3 5 87 .078 INB042 10.0 11.4 12.6 1 16.7 5 90 .078 INB042 10.0 11.7 14.3 1 19.0 5 79 .081 INB042 11.0 12.4 13.7 1 18.0 5 79 .081 INB043 12.0 14.3 16.5 1 22.0 5 68 .084 INB044 12.0 14.4 17.5 1 22.5 5 67 .086 INB044 13.0 15.2 18.8 1 22.5	1N6038	7.0	8.19	10.00	10	13.8	200	109	.068
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6038A	7.5	8.65	9.55	10	13.4	200	112	.068
INB040 B.5 S.2 I.2.1 I.B.2 S.0 I.G.3 J.G.3 INB040A 9.0 10.5 11.6 1 15.6 10 93 J.G.75 INB041A 10.0 11.4 12.6 1 16.7 5 90 J.G.75 INB042A 11.0 12.4 13.7 1 18.2 5 82 081 INB043 11.0 12.4 13.7 1 18.2 5 82 081 INB043 11.0 12.4 13.7 1 18.2 5 68 084 'INB044A 12.0 14.3 15.8 1 22.5 5 67 086 INB045 14.0 16.2 19.8 1 26.5 5 59.5 088 INB046 16.0 18.0 22.0 1 29.1 5 54 090 INB046 16.0 18.0 22.0 1 33.2	*1N6039	0.0 8.5	9.0	10.5	1	14.5	50	100	.073
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6040	8.5	9.5	12.1	1	14.5	10	93	075
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	*1N6040A	9.0	10.5	11.6	1	15.6	10	96	075
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6041	9.0	10.8	13.2	1	17.3	5	87	078
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	*1N6041A	10.0	11.4	12.6	1	16.7	5	90	.078
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6042	10.0	11.7	14.3	1	19.0	5	79	.081
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	*1N6042A	11.0	12.4	13.7	1	18.2	5	82	.081
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6043	11.0	13.5	16.5	1	22.0	5	68	.084
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	*1N6043A	12.0	14.3	15.8	1	21.2	5	71	.084
$\begin{array}{llllllllllllllllllllllllllllllllllll$	1N6044	12.0	14.4	17.5	1	23.5	5	64	.086
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	*1N6044A	13.0	15.2	16.8	1	22.5	5	67	.086
$\begin{array}{llllllllllllllllllllllllllllllllllll$	1N6045	14.0	16.2	19.8	1	26.5	5	56.5	.088
$\begin{array}{llllllllllllllllllllllllllllllllllll$	*1N6045A	15.0	17.1	18.9	1	25.2	5	59.5	.088
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1N6046	16.0	18.0	22.0	1	29.1	5	51.5	.090
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*1N6046A	17.0	19.0	21.0	1	27.7	5	54	.090
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6047	17.0	19.8	24.2	1	31.9	5	47	.092
1 N6048A20.022.826.4134.7543.094*1 N6048A20.022.825.2133.2545.0941 N604921.024.329.7139.1538.5.095*1 N605024.027.033.0143.5534.5.0971 N605024.027.033.0143.5534.5.0971 N6050A25.028.531.5141.4536.0971 N605126.029.736.3147.7531.5.098*1 N6051A28.031.434.7145.7533.0981 N605229.032.439.6152.0529.0991 N6052A30.034.237.8149.9530.0991 N6053A31.035.142.9156.4526.5.100*1 N6054A36.040.945.2159.3525.3.1011 N6055A40.044.749.4164.8523.2.1011 N6056A43.048.553.6170.1521.4.1021 N6056A43.048.553.6170.1521.4.1021 N6056A43.048.553.6170.1513.6.1031 N6057A47.053.258.81<	*1N6047A	18.0	20.9	23.1	1	30.6	5	49	.092
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1N6048	19.0	21.6	26.4	1	34.7	5	43	.094
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	^1N6048A	20.0	22.8	25.2	1	33.2	5	45	.094
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*1N6040A	21.0	24.3	29.7	1	39.1	5	30.0	.095
IN0050A 24.0 27.0 35.0 1 43.3 5 34.3 .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 *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 *1N6053 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 *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 *1N6056A 41.0 45.9 <t< td=""><td>1N6050</td><td>22.0</td><td>23.7</td><td>20.4</td><td>1</td><td>37.5</td><td>5</td><td>40</td><td>.090</td></t<>	1N6050	22.0	23.7	20.4	1	37.5	5	40	.090
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	*1N6050A	24.0	28.5	31.5	1	43.5	5	36	.097
*1N6051A 28.0 31.4 34.7 1 45.7 5 33 .008 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 *1N6053A 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 *1N6054A 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 *1N6055A 40.0 44.7 49.4 1 64.8 5 23.2 .101 *1N6056A 43.0 48.5 53.6 1 70.1 5 21.4 .102 *1N6057A 47.0 53.2 58.8 1	1N6051	26.0	20.0	36.3	1	47.7	5	31.5	.037
IN6052 29.0 32.4 39.6 1 52.0 5 29 0.099 *1N6052A 30.0 34.2 37.8 1 49.9 5 30 .099 1N6053A 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 22.2 .101 *1N6055A 40.0 44.7 49.4 1 64.8 5 23.2 .101 *1N6056A 43.0 48.5 53.6 1 70.1 5 21.4 .102 *1N6057A 47.0 53.2 58.8 1 77.0 5 19.5 .103 *1N6057A 47.0 53.2 58.8 68.2 <td>*1N6051A</td> <td>28.0</td> <td>31.4</td> <td>34.7</td> <td>1</td> <td>45.7</td> <td>5</td> <td>33</td> <td>.098</td>	*1N6051A	28.0	31.4	34.7	1	45.7	5	33	.098
*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 *1N6056A 43.0 48.5 53.6 1 70.1 5 21.4 .102 *1N6057A 47.0 53.2 58.8 1 77.0 5 19.5 .103 *1N6058A 48.0 55.8 68.2 1 89.0 5 16.9 .104 *1N6058A 53.0 64.6	1N6052	29.0	32.4	39.6	1	52.0	5	29	.099
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*1N6052A	30.0	34.2	37.8	1	49.9	5	30	.099
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1N6053	31.0	35.1	42.9	1	56.4	5	26.5	.100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*1N6053A	33.0	37.1	41.0	1	53.9	5	28	.100
*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 *1N6056A 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 *1N6057A 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 *1N6059A 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 *1N6060A 64.0 71.4 <td>1N6054</td> <td>34.0</td> <td>38.7</td> <td>47.3</td> <td>1</td> <td>61.9</td> <td>5</td> <td>24</td> <td>.101</td>	1N6054	34.0	38.7	47.3	1	61.9	5	24	.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 $.104$ $*1N6060A$ 64.0 71.3 78.8 1 103.0 5 13.9 $.105$ $*1N6061A$ 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	*1N6054A	36.0	40.9	45.2	1	59.3	5	25.3	.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 *1N6060A 64.0 71.3 78.8 1 <td>1N6055</td> <td>38.0</td> <td>42.3</td> <td>51.7</td> <td>1</td> <td>67.8</td> <td>5</td> <td>22.2</td> <td>.101</td>	1N6055	38.0	42.3	51.7	1	67.8	5	22.2	.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 *1N6060A 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 <td>*1N6055A</td> <td>40.0</td> <td>44.7</td> <td>49.4</td> <td>1</td> <td>64.8</td> <td>5</td> <td>23.2</td> <td>.101</td>	*1N6055A	40.0	44.7	49.4	1	64.8	5	23.2	.101
*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 16.3 .104 *1N6059A 58.0 64.6 71.4 1 92.0 5 16.3 .104 *1N6059A 58.0 64.6 71.4 1 92.0 5 16.3 .104 *1N6060A 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 </td <td>1N6056</td> <td>41.0</td> <td>45.9</td> <td>56.1</td> <td>1</td> <td>73.5</td> <td>5</td> <td>20.4</td> <td>.102</td>	1N6056	41.0	45.9	56.1	1	73.5	5	20.4	.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 *1N6061A 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	*1N6056A	43.0	48.5	53.6	1	70.1	5	21.4	.102
*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	1N6057	45.0	50.4	61.6	1	80.5	5	18.6	.103
IN0006 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	1N6057A	47.0	53.2	58.8	1	//.0	5	19.5	.103
IN0030A 53.0 50.9 60.1 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	1100058	48.0	55.8	68.2	1	89.0	5	16.9	.104
1N6059 55.0 61.2 74.0 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	1N6050	53.U	50.9 61.2		1	0.00	5	17.7	.104
1100030A 50.0 64.0 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	*1N6050	55.0	61.2	74.0	1	90.U 02.0	5	10.0	.104
1N6060 60.0 67.5 62.5 1 106.0 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	1N6060	60.0	67 5	11.4 92 F	1	32.U 109.0	5	10.0	104
1000004 04.0 11.3 10.0 1 103.0 5 14.0 .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	*1N60604	64.0	71.0	78 9	1	102.0	5	17.9	105
*1N6061A 70.0 77.9 86.1 1 113.0 5 13.3 105	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

ELECTRICAL CHARACTERISTICS @ 25 °C (Test Both Polarities)



ELECTRICAL CHARACTERISTICS @ 25 °C (Test Both Polarities)								
JEDEC Type No.	Rated Standoff Voltage V _{WM}	F V (BR)min	Breakdown Voltage V _(BR) V _{(BR)max}	@ I _(BR)	Maximum Clamping Voltage V _C @ I _{PP}	Maximum Standby Current I _D @ V _{WM}	Maximum Peak Pulse Current I _{PP} (See <u>Fig. 2</u>)	Maximum Temperature Coefficient of V _(BR)
	Volts	Volts	Volts	mA	Volts	μA	Amps	α _{ν(BR)} %/°C
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

* Also available in military qualified types by adding the prefix JAN, JANTX or JANTXV per MIL-PRF-19500/507.



GRAPHS



FIGURE 2 Peak Pulse Power versus Pulse Time

Downloaded from Arrow.com.



GRAPHS



FIGURE 3 Current impulse waveform ($I_{PP} = 10 \ \mu s$)



Current impulse waveform (I_{PP} = 8 µs).



PACKAGE DIMENSIONS



NOTES:

- 1 Dimensions are in inches.
- 2 Millimeter equivalents are given for general information only.
- 3 The major diameter is essentially constant along its length.
- 4 Within this zone, diameter may vary to allow for lead finishes and irregularities.
- 5 Dimension to allow for pinch or seal deformation anywhere along tubulation.
- 6 Symbol for bidirectional transient suppressor.
- 7 Lead 1 shall be electrically connected to the case.
- 8~ In accordance with ASME Y14.5M, diameters are equivalent to Φx symbology.

Symbol	Inc	hes	Millin	Notes	
	Min	Max	Min	Max	
BD	.215	.235	5.46	5.97	
BL	.293	.357	7.44	9.07	3
BLT		.570		14.48	
CD	.045	.100	1.14	2.54	5
LD	.025	.035	0.64	0.89	
LL	1.000	1.625	25.40	41.28	
LU		.188		4.78	4