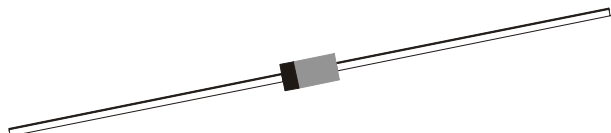


## SILICON GLASS PASSIVATED 0.5WATT ZENER DIODES

**BZX79C 2V4 to 51V**  
**DO-35 500mW**



These Zeners Are Best Suited for Industrial Purpose, Military & Space Applications when Hermetically Sealed in Glass with Double Stud This Glass Passivated Chip Provides Excellent Stability & Reliability.

### ABSOLUTE MAXIMUM RATINGS (Ta=25 deg C)

| DESCRIPTION                                    | SYMBOL   | VALUE       | UNIT    |
|------------------------------------------------|----------|-------------|---------|
| Power Dissipation                              | PD       | 500         | mW      |
| Surge Power Dissipation @ tp=83ms              | PDS      | 5.0         | W       |
| Operating & Storage Junction Temperature Range | Tj, Tstg | -65 to +200 | deg C   |
| Thermal Resistance Junction to Ambient (1)     | Rth(j-a) | 300         | deg C/W |

### ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless otherwise Specified)

|                            |    |     |   |
|----------------------------|----|-----|---|
| Forward Voltage @ IF=200mA | VF | 1.5 | V |
|----------------------------|----|-----|---|

(1) On infinite Heatsink With 4mm Lead Length.

### ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless otherwise Specified)

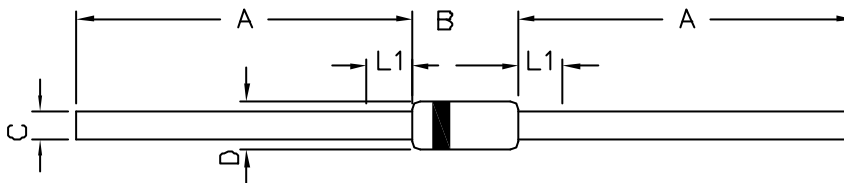
| Device     | VZT     | @ IZT * | rZT @     | IZT  | rZK @     | IZK  | Temp. Coeff of VZ  | IR @ Tamb             | VR  | IZM      |
|------------|---------|---------|-----------|------|-----------|------|--------------------|-----------------------|-----|----------|
|            | min (V) | max (V) | max (ohm) | (mA) | max (ohm) | (mA) | min max (mV/deg C) | 25 deg C 150degC (uA) | (V) | max (mA) |
| BZX79C 2V4 | 2.20    | 2.60    | 100       | 5.0  | 600       | 1.0  | -3.5 0             | 50 100                | 1.0 | 155      |
| BZX79C 2V7 | 2.50    | 2.90    | 100       | 5.0  | 600       | 1.0  | -3.5 0             | 20 50                 | 1.0 | 135      |
| BZX79C 3V0 | 2.80    | 3.20    | 95        | 5.0  | 600       | 1.0  | -3.5 0             | 10 40                 | 1.0 | 125      |
| BZX79C 3V3 | 3.10    | 3.50    | 95        | 5.0  | 600       | 1.0  | -3.5 0             | 5.0 40                | 1.0 | 115      |
| BZX79C 3V6 | 3.40    | 3.80    | 90        | 5.0  | 600       | 1.0  | -3.5 0             | 5.0 40                | 1.0 | 105      |
| BZX79C 3V9 | 3.70    | 4.10    | 90        | 5.0  | 600       | 1.0  | -3.5 0             | 3.0 40                | 1.0 | 95       |
| BZX79C 4V3 | 4.00    | 4.60    | 90        | 5.0  | 600       | 1.0  | -3.5 0             | 3.0 20                | 1.0 | 90       |
| BZX79C 4V7 | 4.40    | 5.00    | 80        | 5.0  | 500       | 1.0  | -3.5 0.2           | 3.0 10                | 2.0 | 85       |
| BZX79C 5V1 | 4.80    | 5.40    | 60        | 5.0  | 480       | 1.0  | -2.7 1.2           | 2.0 10                | 2.0 | 80       |
| BZX79C 5V6 | 5.20    | 6.00    | 40        | 5.0  | 400       | 1.0  | -2.0 2.5           | 1.0 10                | 2.0 | 70       |
| BZX79C 6V2 | 5.80    | 6.60    | 10        | 5.0  | 150       | 1.0  | 0.4 3.7            | 3.0 10                | 4.0 | 64       |
| BZX79C 6V8 | 6.40    | 7.20    | 15        | 5.0  | 80        | 1.0  | 1.2 4.5            | 2.0 5.0               | 4.0 | 58       |
| BZX79C 7V5 | 7.00    | 7.90    | 15        | 5.0  | 80        | 1.0  | 2.5 5.3            | 1.0 5.0               | 5.0 | 53       |
| BZX79C 8V2 | 7.70    | 8.70    | 15        | 5.0  | 80        | 1.0  | 3.2 6.2            | 0.7 2.0               | 5.0 | 47       |
| BZX79C 9V1 | 8.50    | 9.60    | 15        | 5.0  | 100       | 1.0  | 3.8 7              | 0.5 2.0               | 6.0 | 43       |
| BZX79C 10  | 9.40    | 10.60   | 20        | 5.0  | 150       | 1.0  | 4.5 8              | 0.2 2.0               | 7.0 | 40       |
| BZX79C 11  | 10.40   | 11.60   | 20        | 5.0  | 150       | 1.0  | 5.4 9              | 0.1 2.0               | 8.0 | 36       |
| BZX79C 12  | 11.40   | 12.70   | 25        | 5.0  | 150       | 1.0  | 6.0 10             | 0.1 2.0               | 8.0 | 32       |
| BZX79C 13  | 12.40   | 14.10   | 30        | 5.0  | 170       | 1.0  | 7.0 11             | 0.1 2.0               | 8.0 | 29       |
| BZX79C 15  | 13.80   | 15.60   | 30        | 5.0  | 200       | 1.0  | 9.2 13             | 0.05 2.0              | 10  | 27       |
| BZX79C 16  | 15.30   | 17.10   | 40        | 5.0  | 200       | 1.0  | 10.4 14            | 0.05 2.0              | 11  | 24       |
| BZX79C 18  | 16.80   | 19.10   | 45        | 5.0  | 225       | 1.0  | 12.4 16            | 0.05 2.0              | 13  | 21       |
| BZX79C 20  | 18.80   | 21.20   | 55        | 5.0  | 225       | 1.0  | 14.4 18            | 0.05 2.0              | 14  | 20       |
| BZX79C 22  | 20.80   | 23.30   | 55        | 5.0  | 250       | 1.0  | 16.4 20            | 0.05 2.0              | 15  | 18       |

**ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless otherwise Specified)**

| Device    | VZT   | @ IZT * | rZT @ | IZT  | rZK   | @ IZK | Temp. Coeff |          | IR @ | VR   | IZM |      |
|-----------|-------|---------|-------|------|-------|-------|-------------|----------|------|------|-----|------|
|           |       |         |       |      |       |       | of          |          |      |      |     | Tamb |
|           |       |         |       |      |       |       | VZ          | 25 deg C |      |      |     |      |
|           | min   | max     | max   |      | max   |       | min         | max      | max  | max  |     |      |
|           | (V)   | (V)     | (ohm) | (mA) | (ohm) | (mA)  | (mV/deg C)  |          | (uA) | (uA) | (V) | (mA) |
| BZX79C 24 | 22.80 | 25.60   | 70    | 5.0  | 250   | 1.0   | 18.4        | 22       | 0.05 | 2.0  | 17  | 16   |
| BZX79C 27 | 25.10 | 28.90   | 80    | 2.0  | 300   | 0.5   | 21.4        | 25.3     | 0.05 | 2.0  | 19  | 14   |
| BZX79C 30 | 28.00 | 32.00   | 80    | 2.0  | 300   | 0.5   | 24.4        | 29.4     | 0.05 | 2.0  | 21  | 13   |
| BZX79C 33 | 31.00 | 35.00   | 80    | 2.0  | 325   | 0.5   | 27.4        | 33.4     | 0.05 | 2.0  | 23  | 12   |
| BZX79C 36 | 34.00 | 38.00   | 90    | 2.0  | 350   | 0.5   | 30.4        | 37.4     | 0.05 | 2.0  | 25  | 11   |
| BZX79C 39 | 37.00 | 41.00   | 130   | 2.0  | 350   | 0.5   | 33.4        | 41.2     | 0.05 | 2.0  | 27  | 10   |
| BZX79C 43 | 40.00 | 46.00   | 150   | 2.0  | 375   | 0.5   | 37.6        | 46.6     | 0.05 | 2.0  | 29  | 9.2  |
| BZX79C 47 | 44.00 | 50.00   | 170   | 2.0  | 375   | 0.5   | 42          | 51.8     | 0.05 | 2.0  | 33  | 8.5  |
| BZX79C 51 | 48.00 | 54.00   | 180   | 2.0  | 400   | 0.5   | 46.6        | 57.2     | 0.05 | 2.0  | 36  | 7.8  |

**\*Pulse Condition : 20ms= tp=50ms . Duty Cycle=2%**

## DO-35 Glass Axial Package

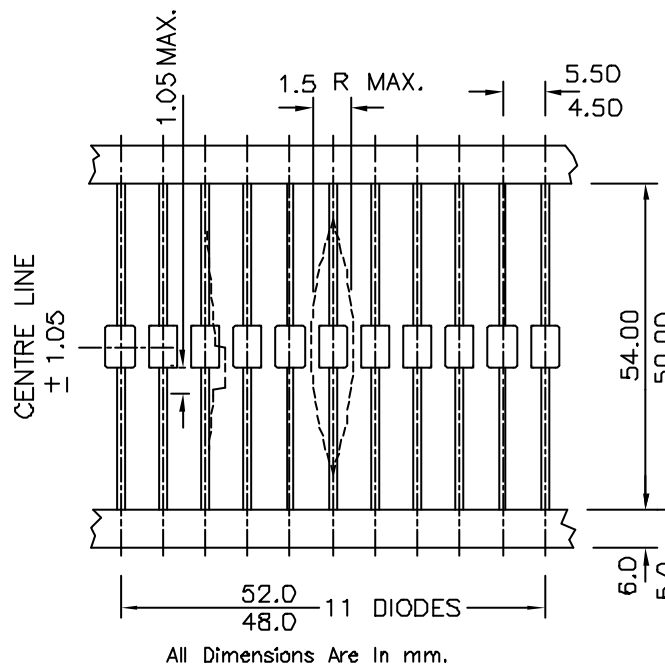


## NOTES:-

Cathode is marked by Band.  
All Dimensions Are In mm.

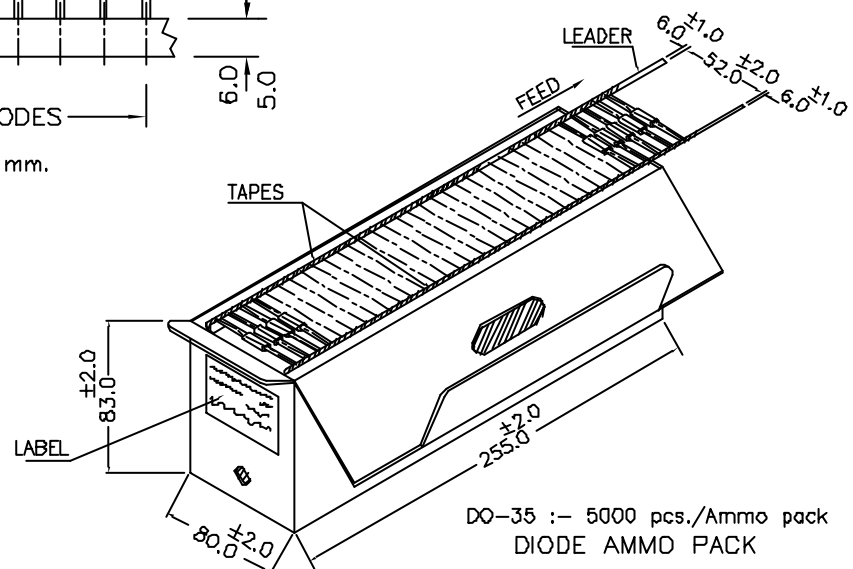
| DIM | MIN   | MAX   |
|-----|-------|-------|
| A   | 25.40 | 38.10 |
| B   | 3.05  | 5.08  |
| C   | 0.46  | 0.55  |
| D   | 1.53  | 2.28  |
| L1  | —     | 1.27  |

## DO-35, 52mm Taping Specification



## 52mm Taping Specification

1. T & A Indicates Axial Tape & Ammo packing (52 mm Tape Specing)
2. 300 mm (min) leader tape on every spool.
3. No. of empty places allowed 0.25% without consecutive empty places.
4. Ends of leads shall preferably not protrude beyond the tapes.
5. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.



on request also available in 26 mm Tape and Ammo Pack

## Packing Detail

| PACKAGE   | STANDARD PACK |                | INNER CARTON BOX |      | OUTER CARTON BOX |        |       |
|-----------|---------------|----------------|------------------|------|------------------|--------|-------|
|           | Details       | Net Weight/Qty | Size             | Qty  | Size             | Qty    | Qty   |
| DO-35 T&A | 5K/ammo box   | 0.88kg/5K pcs  | 10"X3.5"X3.5"    | 5.0K | 12.7"X12.7"X20"  | 125.0K | 25Kgs |

**Customer Notes****Disclaimer**

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