

1N3611, 1N3612, 1N3613, 1N3614, 1N3957 Axial Leaded Hermetically Sealed Standard Recovery Rectifier Diode

POWER DISCRETES

Description

Quick reference data

$$V_R = 200 - 1000 V$$

 $I_0 = 1.0A$
 $t_{rr} = 2\mu S$
 $V_L = 1.1V$

Features

- ◆ Low reverse leakage current
- Hermetically sealed in Metoxilite fused metal oxide
- Good thermal shock resistance
- Low forward voltage drop
- Avalanche capability

These products can be supplied as JANTX levels.

Electrical Specifications

Electrical specifications @ T_{Δ} = 25 °C unless otherwise specified.

| Types | V _{RWM} | V _F | I _o | | I _{FSM} | I _R | T _{RR} | T _{stg} and T _J | R _{e J⊥} L=.375 inch (9.53mm) |
|--------|------------------|---|--|--|---|--|---|-------------------------------------|---|
| | | At: T _J = 25°C I _O = 1A | At: T _A = +100°C (1)(2) | At: T _A = +150°C (1)(2) | $T_A = +25^{\circ}C$ $I_O = 1 \text{ A dc}$ $t_p = 8.0 \text{ms}$ | V _{RWM.} T _J = 25°C | $\begin{array}{c} 0.5 \text{A I}_{\text{o}} \text{ to} \\ 1.0 \text{A I}_{\text{RM}} \\ \text{recover to} \\ 0.25 \text{A I}_{\text{RM}} \\ \text{(REC)} \end{array}$ | | |
| | V(pk) | V | A dc | mA dc | A(pk) | μA | μS | °C | °C/W |
| 1N3611 | 200 | 1.1 | 1 | 300 | 30 | 0.5 | 2 | -65 to +175 | 38 |
| 1N3612 | 400 | 1.1 | 1 | 300 | 30 | 0.5 | 2 | -65 to +175 | 38 |
| 1N3613 | 600 | 1.1 | 1 | 300 | 30 | 0.5 | 2 | -65 to +175 | 38 |
| 1N3614 | 800 | 1.1 | 1 | 300 | 30 | 0.5 | 2 | -65 to +175 | 38 |
| 1N3957 | 1000 | 1.1 | 1 | 300 | 30 | 0.5 | 2 | -65 to +175 | 38 |

Notes:

- (1) From I_0 rating is independent of heat sinking, special mounting, or leads of the device.
- (2) Derate linearly at 13.3mA between $T_A = +100$ °C and $T_A = +175$ °C



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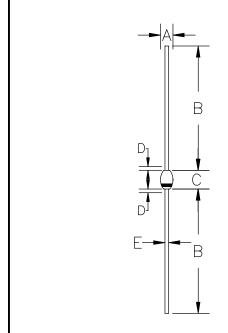
Ordering Information

| Part Number | Description |
|------------------|---|
| 1N3611 1N3612 | |
| 1N3613 | Axial leaded hermetically sealed ⁽¹⁾ |
| 1N3614 1N3957 | |

Note:

(1) Available in bulk or tape and reel packaging. Please consult factory for quantities.

Outline Drawing



G2

| | DIMENSIONS | | | | | | | | |
|--|------------|------|------|------|------|--------|--|--|--|
| | DIMN | М | М | INC | NOTE | | | | |
| | ייוטווט | MIN | MAX | MIN | MAX | INO IE | | | |
| | Α | 1.6 | 2.8 | .065 | .110 | _ | | | |
| | В | 25.4 | 33.0 | 1.00 | 1.30 | _ | | | |
| | С | 3.5 | 4.2 | .140 | .165 | _ | | | |
| | D | _ | .80 | _ | .030 | 1 | | | |
| | Ε | .66 | .84 | .026 | .033 | _ | | | |

NOTES:

1. LEAD DIAMETER UNCONTROLLED OVER THIS REGION.

CATHODE IS DENOTED BY A BAND.

Contact Information

Semtech Corporation
Power Discretes Products Division
200 Flynn Road, Camarillo, CA 93012
Phone: (805)498-2111 FAX (805)498-3804