

Electrical Characteristics (At Ta=25°C, unless otherwise noted)

| Parameter                       | Conditions    | Symbol | Min. | Max. | Unit |
|---------------------------------|---------------|--------|------|------|------|
| Reverse breakdown voltage       | IR=1mA        | VBR    | 40   |      | V    |
| Reverse voltage leakage current | VR=40V        | IR     |      | 1    | mA   |
| Forward voltage                 | IF=1A         | VF     |      | 0.60 | V    |
|                                 | IF=3A         |        |      | 0.90 |      |
| Diode capacitance               | VR=4V, f=1MHz | CD     |      | 120  | pF   |

Rating and Characteristic Curves (CDBW140-G)

Fig.1- Power Derating Curve

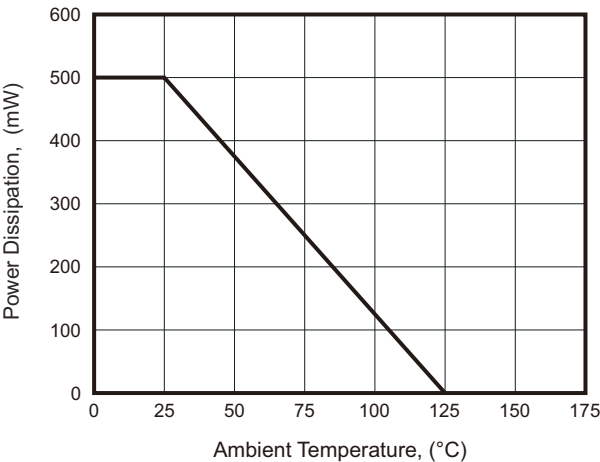


Fig.2 - Typical Junction Capacitance

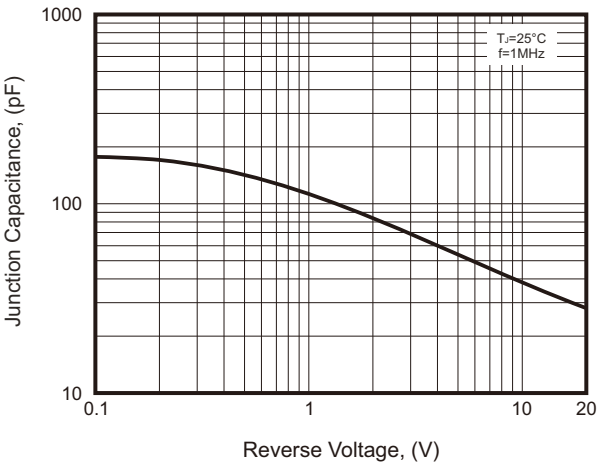


Fig.3 - Typical Instantaneous Forward Characteristics

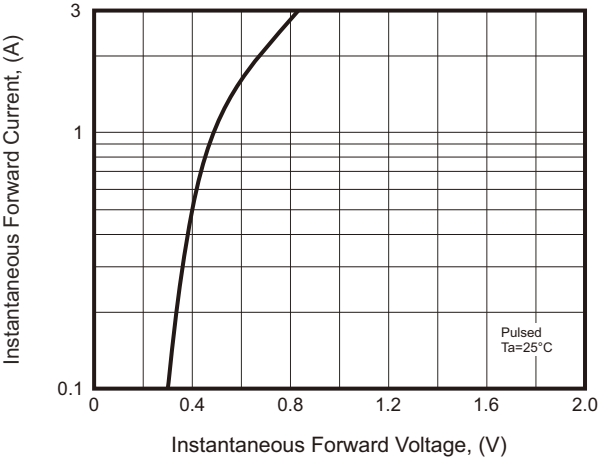
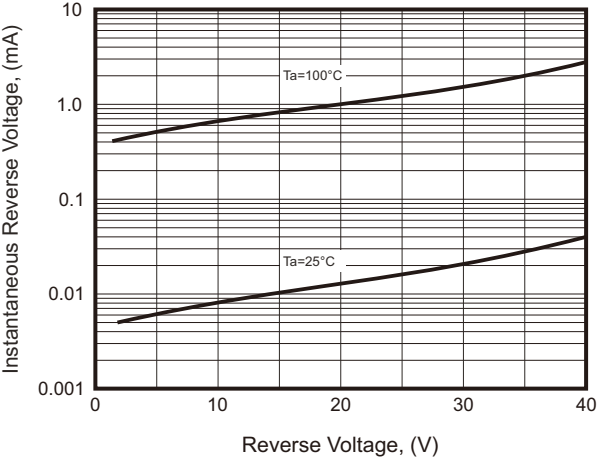
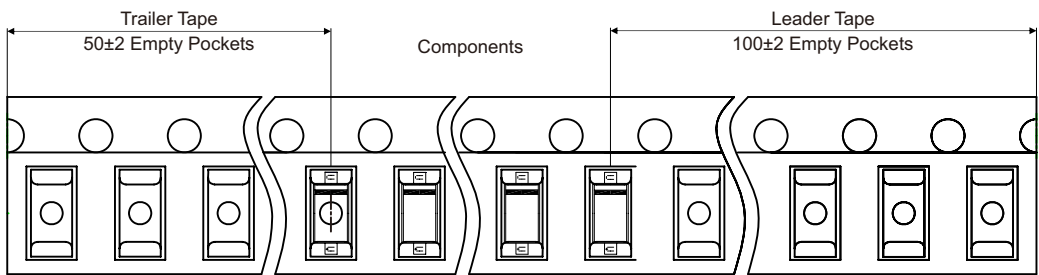
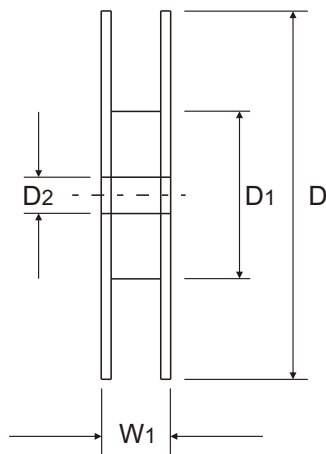
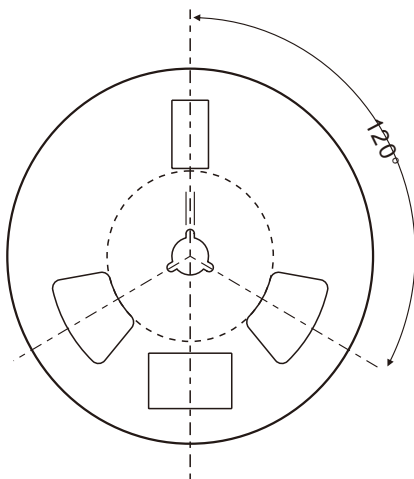
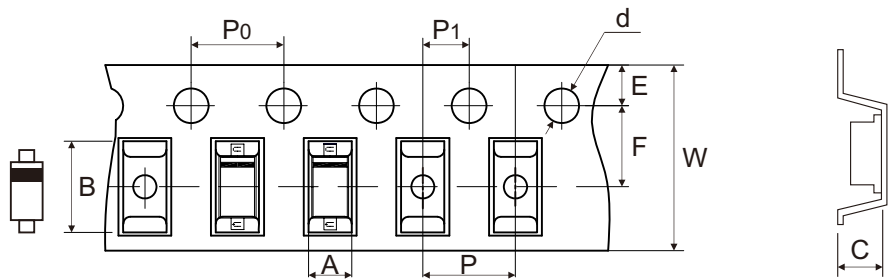


Fig.4 - Typical Reverse Characteristics



Reel Taping Specification



| SOD-123 | SYMBOL | A             | B             | C             | d             | D             | D1            | D2            |
|---------|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|         | (mm)   | 1.85 ± 0.05   | 3.94 ± 0.05   | 1.57 ± 0.05   | 1.55 ± 0.10   | 178 ± 2.00    | 54.40 ± 1.00  | 13.00 ± 1.00  |
|         | (inch) | 0.073 ± 0.002 | 0.155 ± 0.002 | 0.062 ± 0.002 | 0.061 ± 0.004 | 7.008 ± 0.079 | 2.142 ± 0.039 | 0.512 ± 0.039 |

| SOD-123 | SYMBOL | E             | F             | P             | P0            | P1            | W                        | W1            |
|---------|--------|---------------|---------------|---------------|---------------|---------------|--------------------------|---------------|
|         | (mm)   | 1.75 ± 0.10   | 3.50 ± 0.10   | 4.00 ± 0.10   | 4.00 ± 0.10   | 2.00 ± 0.10   | 8.00 + 0.30<br>- 0.10    | 12.30 ± 1.00  |
|         | (inch) | 0.069 ± 0.004 | 0.138 ± 0.004 | 0.157 ± 0.004 | 0.157 ± 0.004 | 0.079 ± 0.004 | 0.315 + 0.012<br>- 0.004 | 0.484 ± 0.039 |

Marking Code

| Part Number | Marking Code |
|-------------|--------------|
| CDBW140-G   | SL           |

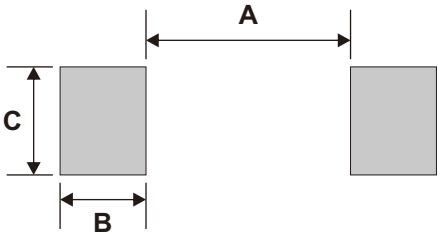


xx = Product type marking code

 = Cathode band

Suggested PAD Layout

| SIZE | SOD-123 |        |
|------|---------|--------|
|      | (mm)    | (inch) |
| A    | 2.31    | 0.091  |
| B    | 0.97    | 0.038  |
| C    | 1.22    | 0.048  |



Standard Packaging

| Case Type | REEL PACK  |                  |
|-----------|------------|------------------|
|           | REEL (pcs) | Reel Size (inch) |
| SOD-123   | 3,000      | 7                |