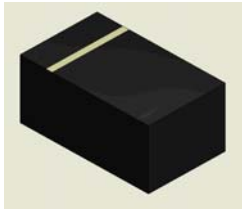
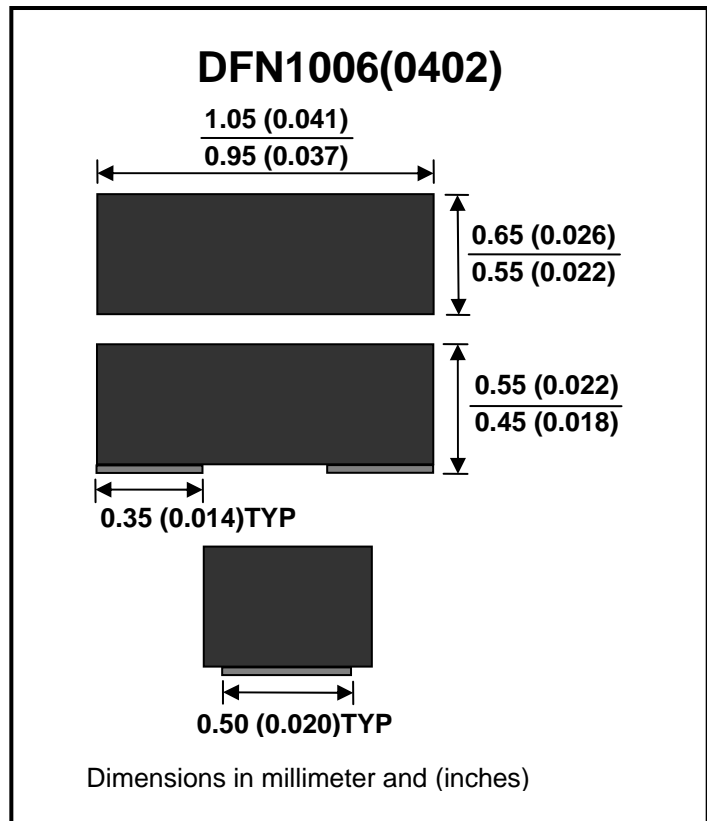


**CDB0130QRL****100mA 30V****Features**

- Low forward voltage
- Thin & leadless package for space saving
- Pb free version, RoHS compliant, and Halogen free

Mechanical Characteristics

- Case: DFN1006(0402) mold package
- Terminal: Sn/Au plated, solderable per MIL-STD-750, method 2026
- Marking: cathode band & BP
- Weight: 0.001 gram(approx.)

**Maximum Rating And Electrical Characteristics (at Ta=25°C unless otherwise noted)**

| Parameter | Condition | Symbol | Min | Typ | Max | Unit |
|---------------------------------|--|------------------|-----|-----|----------------------|------|
| Repetitive peak reverse voltage | | VRRM | | | 35 | V |
| Reverse voltage | | VR | | | 30 | V |
| Average forward current | | Io | | | 100 | mA |
| Forward current surge peak | 8.3 ms single half sine-wave superimposed on rate load (JEDEC method) | IFSM | | | 1 | A |
| Storage/Operation temperature | | T _{sgt} | -40 | | 125 | °C |
| Junction temperature | | T _j | | | 125 | °C |
| Forward voltage | IF1=10mA IF2=20mA IF3=100mA | VF | | | 0.29 0.30 0.40 | V |
| Reverse current | VR=30V | IR | | | 30 | uA |



Typical Characteristics

Fig.1-forward characteristics

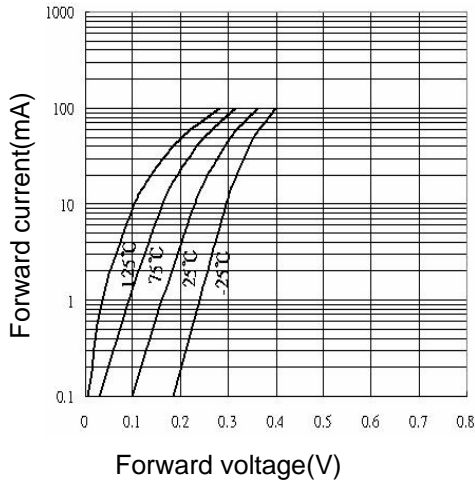


Fig.2-Reverse characteristics

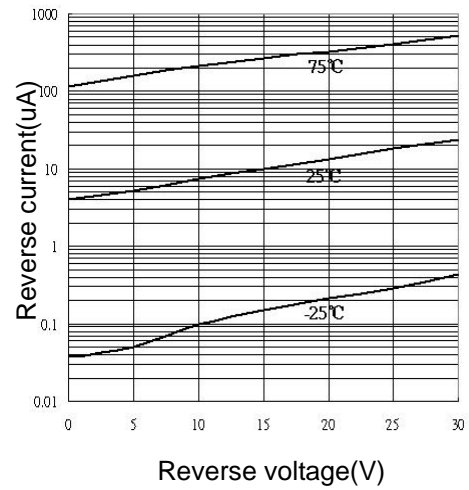


Fig.3 - Capacitance between terminals characteristics

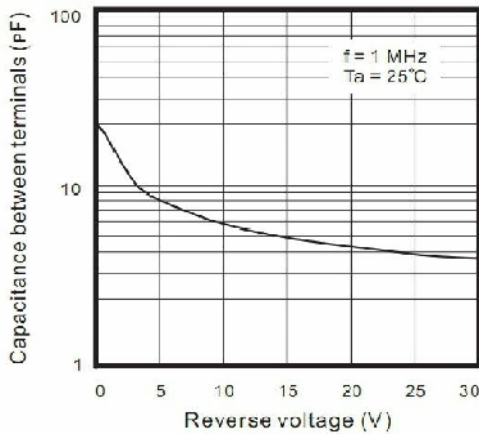


Fig.4 - Current derating curve

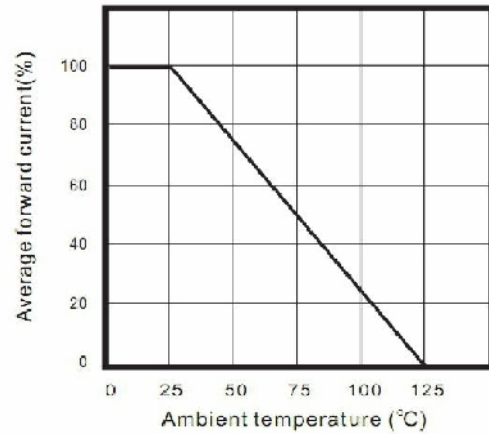


Fig. 5 - VF Dispersion map

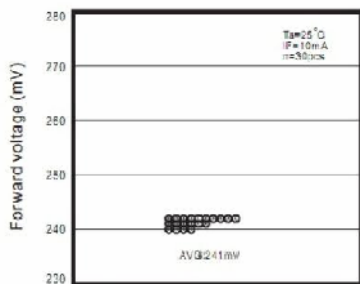


Fig. 6 - IR Dispersion map

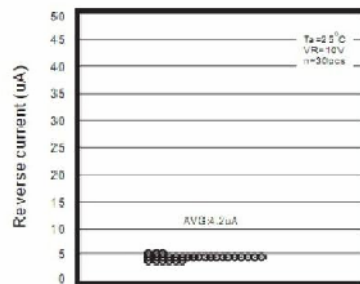
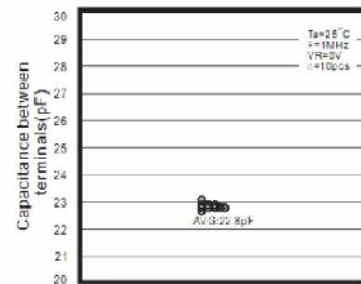


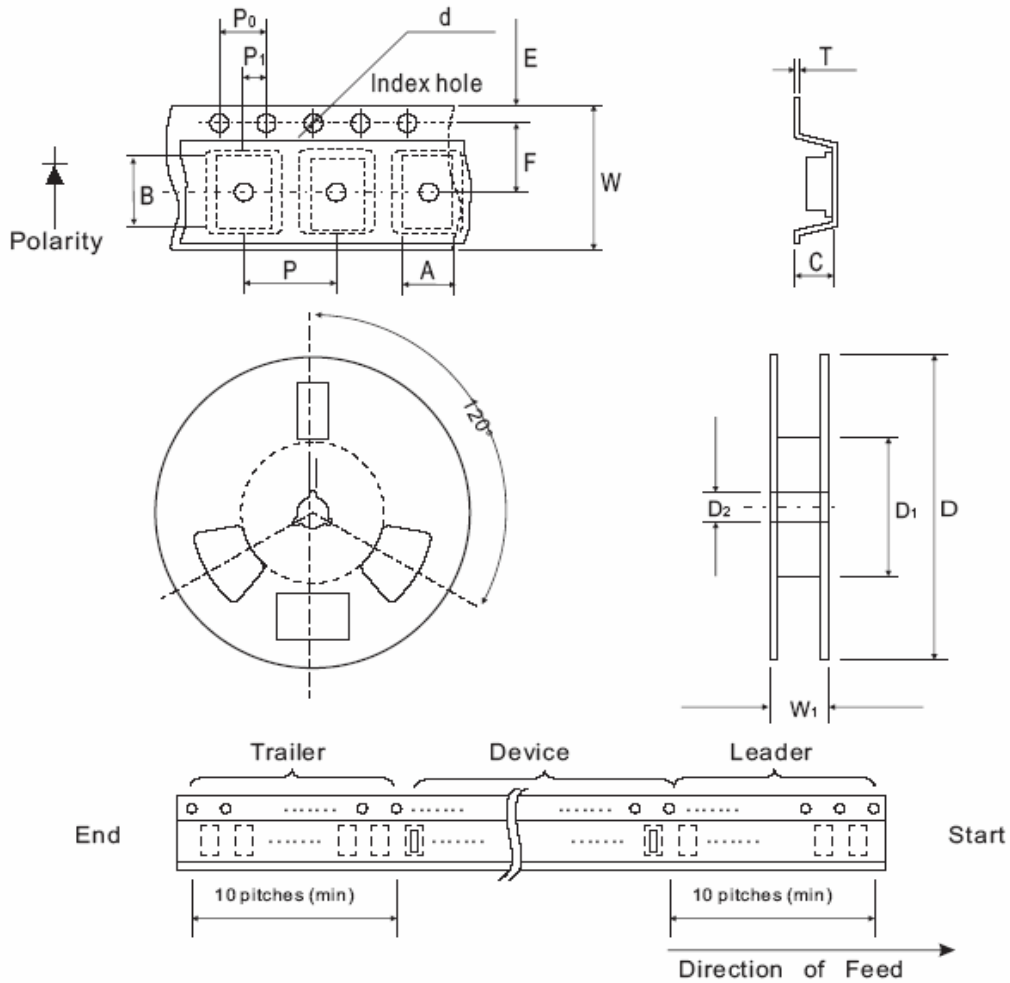
Fig. 7 - CT Dispersion map





Schottky Barrier Diode

Packing Specification



Tape & Reel Dimensions

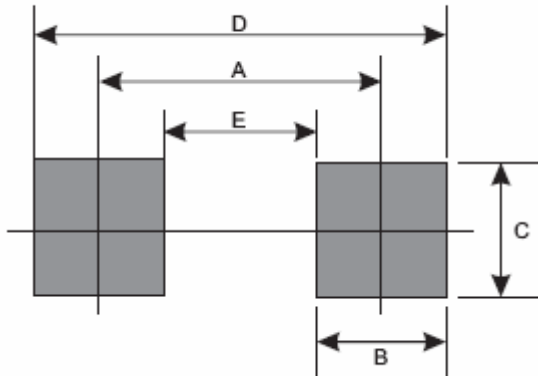
| Package | Unit | A | B | C | d | D |
|---------|------|-------------|-------------|-------------|-------------|------------|
| DFN1006 | mm | 0.67±0.10 | 1.12±0.10 | 0.60±0.10 | 1.50±0.10 | 178±1 |
| | inch | 0.026±0.004 | 0.044±0.004 | 0.024±0.004 | 0.060±0.004 | 7.008±0.04 |

| Package | Unit | D1 | D2 | E | F | P |
|---------|------|----------|-------------|-------------|-------------|-------------|
| DFN1006 | mm | 60MIN | 13.0±0.20 | 1.75±0.10 | 3.5±0.10 | 4.0±0.10 |
| | inch | 2.362MIN | 0.512±0.008 | 0.069±0.004 | 0.138±0.004 | 0.157±0.004 |

| Package | Unit | P0 | P1 | T | W | W1 |
|---------|------|-------------|-------------|-------------|-------------|------------|
| DFN1006 | mm | 4.0±0.10 | 2.0±0.10 | 0.22±0.03 | 8.0±0.10 | 10.5±0.5 |
| | inch | 0.157±0.004 | 0.079±0.004 | 0.009±0.002 | 0.315±0.004 | 0.413±0.02 |

**Standard Package**

| Package | Reel Size | Qty/Reel |
|---------|-----------|-----------|
| DFN1006 | 7" | 5,000 pcs |

Recommended Soldering Footprint**Reflow Soldering**

| Product Size | Dimension/ mm | | | | |
|--------------|---------------|--------|--------|--------|--------|
| | A | B | C | D | E |
| DFN1006 | 0.750 | 0.500 | 0.700 | 1.250 | 0.250 |
| | 0.030" | 0.020" | 0.028" | 0.049" | 0.010" |

Marking Code

| Part Number | Marking Code |
|-------------|--------------|
| CDB0130QRL | BP |

**Disclaimers**

These products are not designed for use in applications where any failure or malfunction may result in personal injury, death or severe property or environmental damage such as medical, military, aircraft, space or life support equipments.

单击下面可查看定价，库存，交付和生命周期等信息

[>>LIZ\(丽智\)](#)