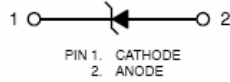




ESDQR36V0U

36V Uni-directional ESD

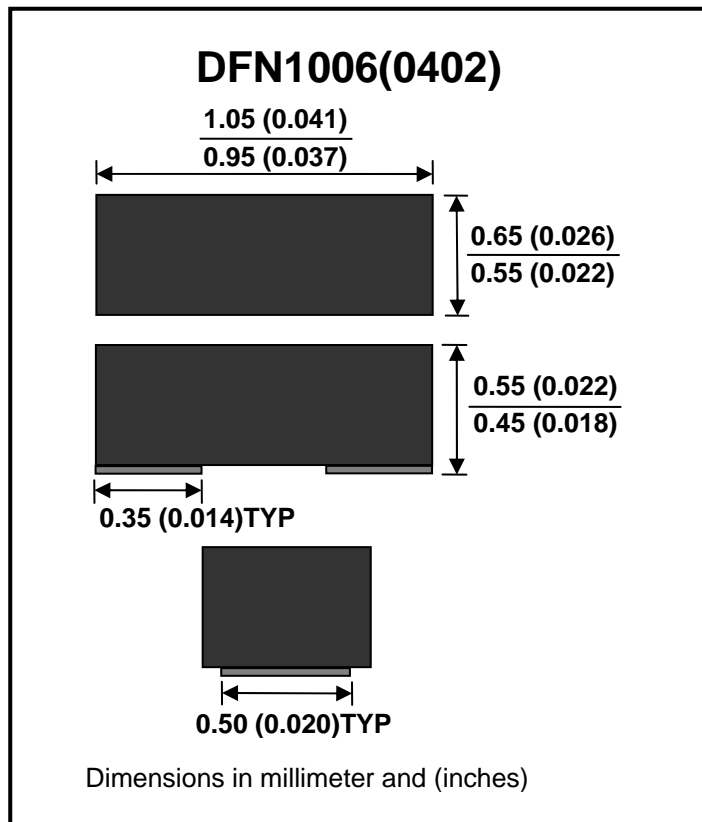


Features

- Protects single I/O lines
- Working Voltage: 36V
- Low leakage current
- Low operating and clamping voltages
- Pb free version, RoHS compliant, and Halogen free

Mechanical Characteristics

- Case: DFN1006(0402) standard package
- Terminals: Sn / Au plated, solderable per MIL-STD-750, method 2026
- Marking Code: Cathode band & E6
- Mounting position: Any.
- Weight: 0.001 gram(approx.)
- MSL: Level 1



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

| Parameter | Condition | Symbol | Min | Typ | Max | Unit |
|---------------------------------|---|--------|-----|-----|-----|------|
| Peak Pulse Power | tp=8/20 μs (According to IEC61000-4-5) | Ppp | | 100 | | W |
| Maximum Peak Pulse Current | tp=8/20 μs (According to IEC61000-4-5) | Ipp | | 1.5 | | A |
| ESD per IEC 61000-4-2 (Air) | | VESD | | ±25 | | kV |
| ESD per IEC 61000-4-2 (Contact) | | | | ±25 | | kV |
| Operating Junction Temperature | | Tj | -40 | | 125 | °C |
| Storage Temperature | | Tstg | -55 | | 150 | °C |
| Reverse Stand-Off Voltage | | VRWM | | | 36 | V |
| Reverse Breakdown Voltage | It = 1mA | VBR | 40 | | | V |
| Reverse Leakage Current | VRWM = 36V | IR | | | 100 | nA |
| Clamping Voltage | Ipp = 1A · tp = 8/20 μs | Vc | | | 58 | V |
| Junction Capacitance | Between I/O Pin and GND VR=0V · f=1MHz | Cj | | 20 | | pF |



Typical Characteristics

Fig.1 - 8/20us Peak Pulse Current
Wave Form Acc. IEC 61000-4-5

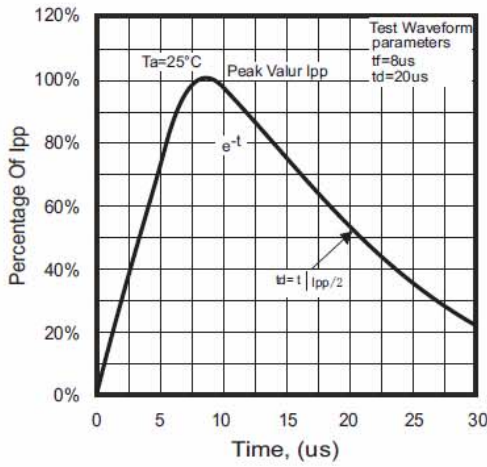


Fig.2 - Power Rating Derating Curve

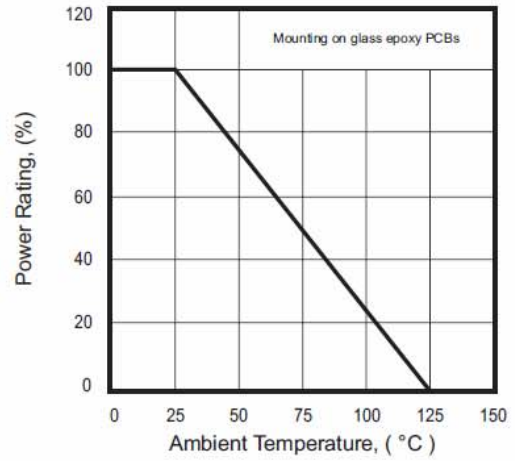


Fig.3 - Typical Clamping Voltage
Vs. Peak Pulse Current

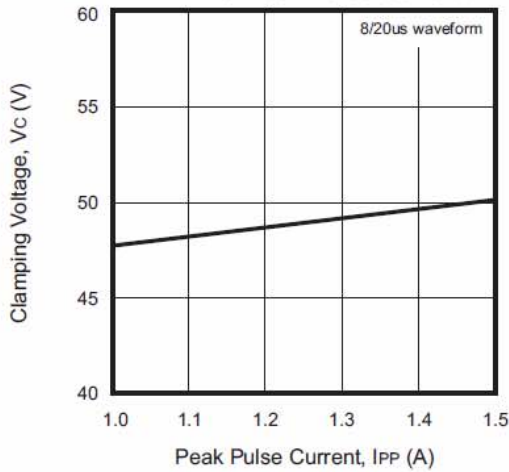


Fig.4 - Forward Characteristic

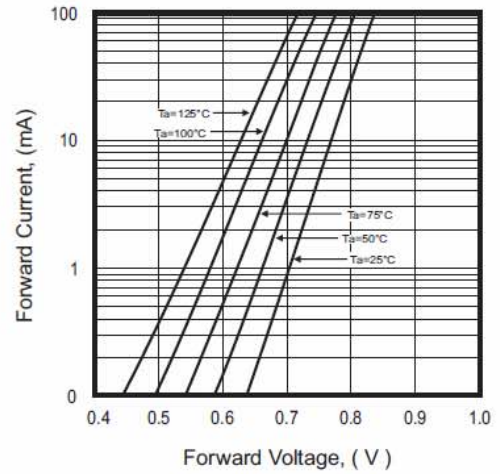
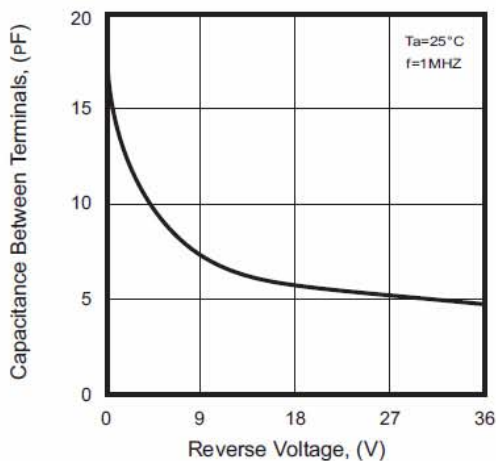
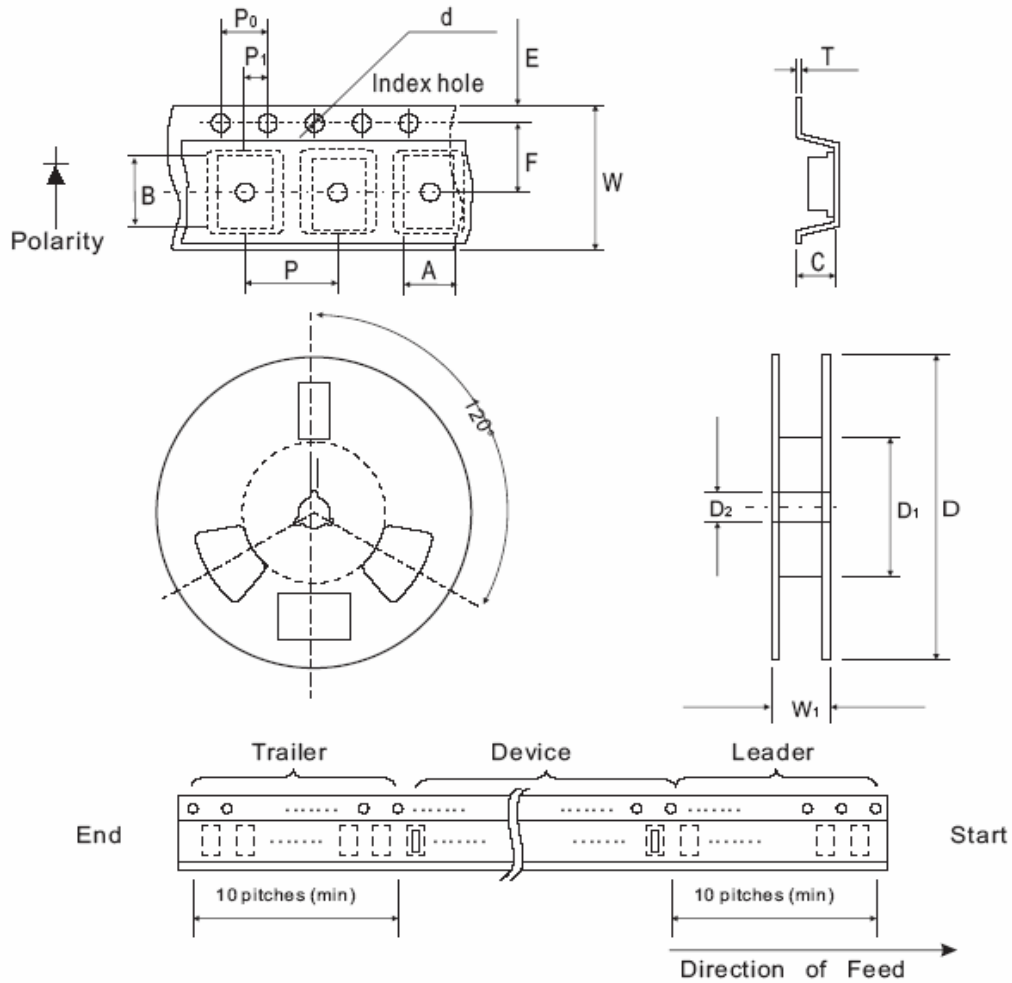


Fig.5 - Typical Capacitance Between
Terminals Characteristics





Packing Specification



Tape & Reel Dimensions

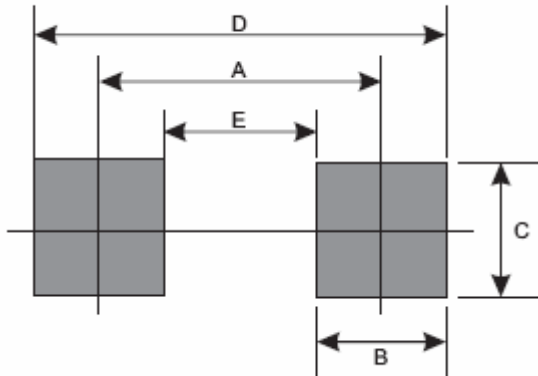
| Package | Unit | A | B | C | d | D |
|---------|------|-------------|-------------|-------------|-------------|------------|
| DFN1006 | mm | 0.67±0.10 | 1.12±0.10 | 0.60±0.10 | 1.50±0.10 | 178±1 |
| | inch | 0.026±0.004 | 0.044±0.004 | 0.024±0.004 | 0.060±0.004 | 7.008±0.04 |

| 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 |
|-------------|--------------|
| ESDQR36V0U | E6 |

**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\(丽智\)](#)