

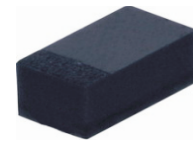
CZRZ5V6B-HF

Voltage 5.6 Volts

Power 100 mW

RoHS Device

Halogen Free

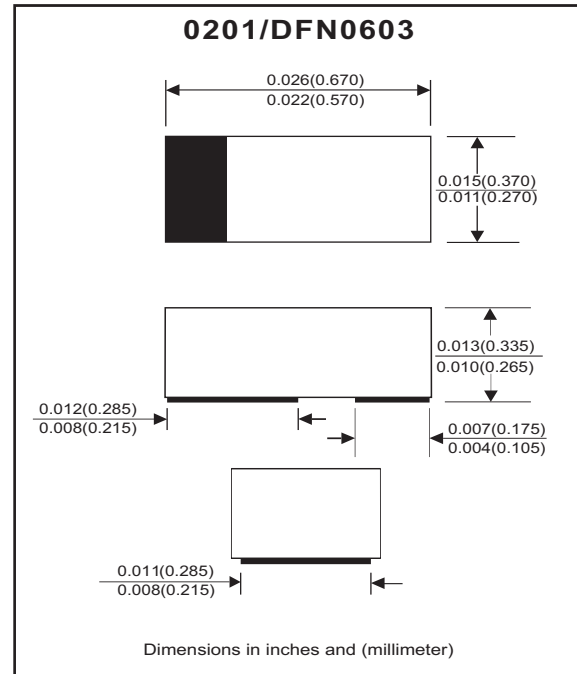


Features

- 100mW Power Dissipation.
- Voltage : 5.6 V
- High reliability.
- Designed for mounting on small surface.
- Extremely thin/leadless package.

Mechanical data

- Case: 0201/DFN0603 package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Marking code: Cathode band & 7
- Mounting position: Any



Circuit diagram



Maximum Rating (at TA=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|-----------|-------------|------|
| Maximum Forward Voltage Drop at $I_F = 10 \text{ mA}$ | V_F | 0.9 | V |
| Maximum Power Dissipation at 25 °C | P_D | 100 | mW |
| Junction Temperature | T_J | 125 | °C |
| Operating Temperature Range | T_{opr} | -55 to +125 | °C |
| Storage Temperature Range | T_{stg} | -55 to +125 | °C |

Electrical Characteristics (at TA=25°C unless otherwise noted)

| Parameter | Conditions | Symbol | Min | Typ | Max | Unit |
|---------------------------------|-----------------------|-----------|------|------|------|------|
| Nominal zener voltage | $I_Z = 5 \text{ mA}$ | V_{RWM} | 5.31 | 5.60 | 5.92 | V |
| Maximum reverse leakage current | $V_R = 2.5 \text{ V}$ | I_R | | | 1 | µA |

RATING AND CHARACTERISTIC CURVES (CZRZ5V6B-HF)

Fig. 1 - Forward characteristics

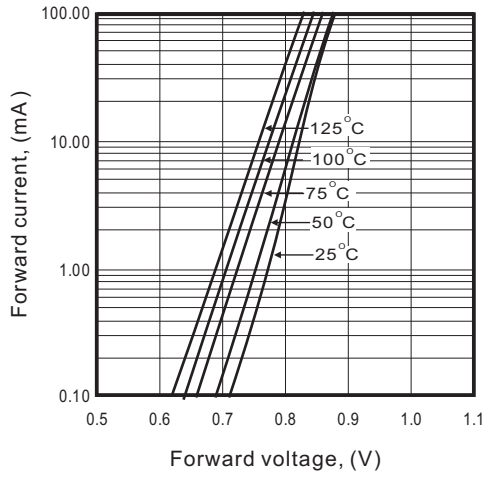


Fig. 2 - Zener Voltage characteristic

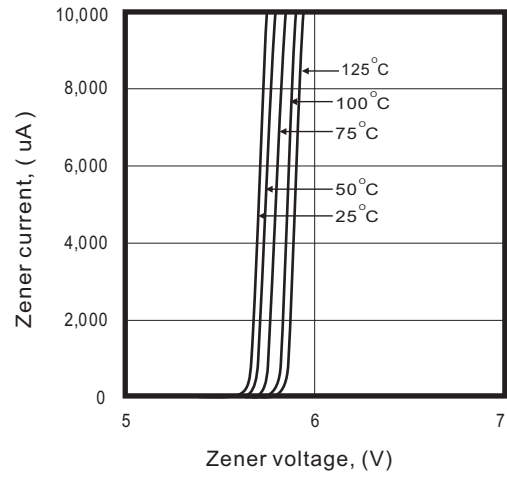


Fig.3 - Capacitance between terminals characteristics

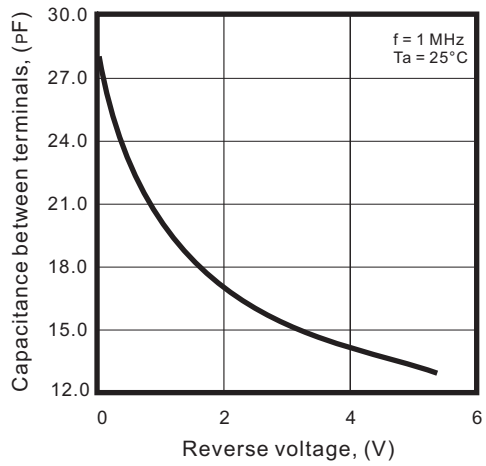
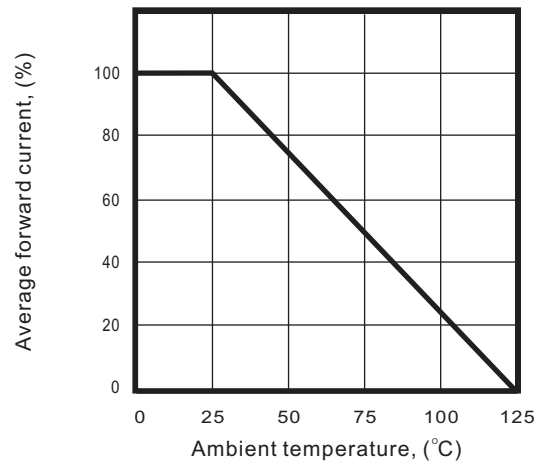
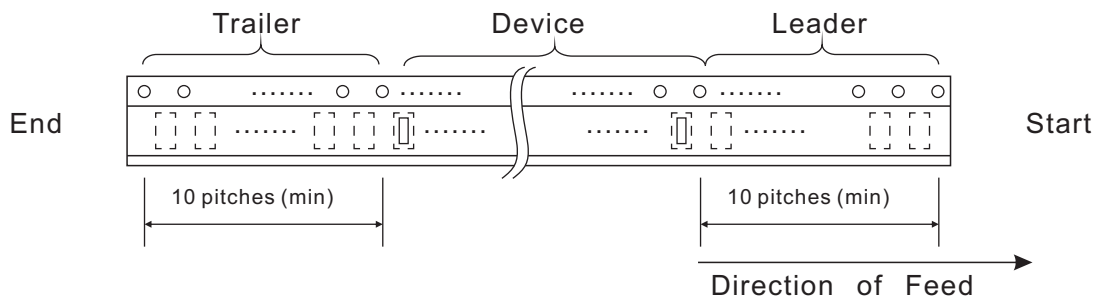
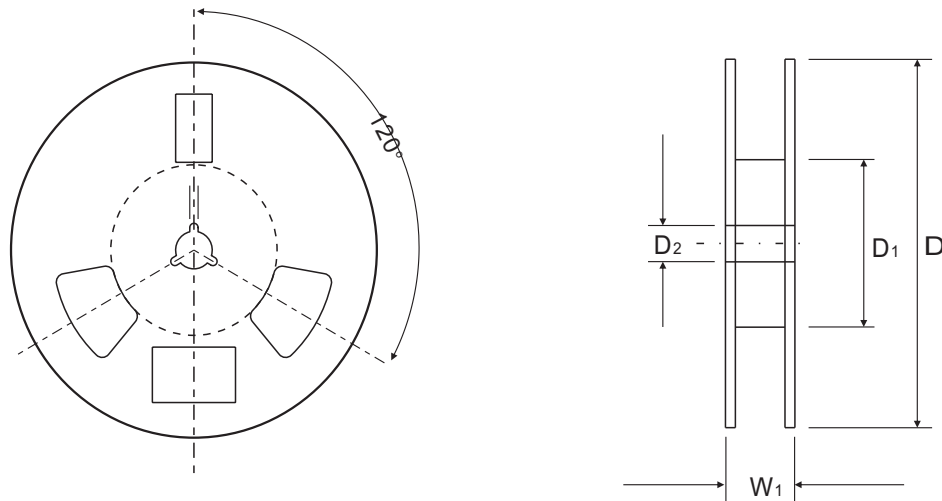
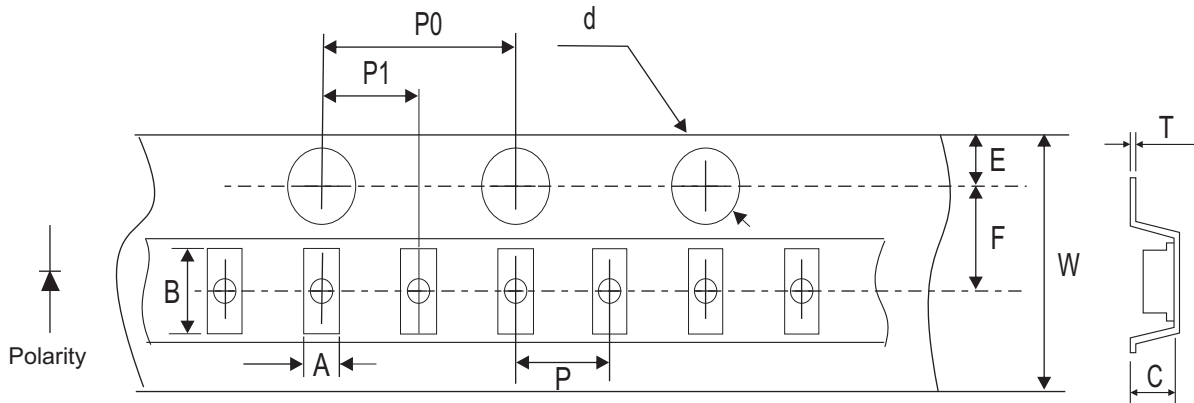


Fig.4 - Current derating curve



Reel Taping Specification



| 0201 (DFN0603) | SYMBOL | A | B | C | d | D | D ₁ | D ₂ |
|-------------------|--------|--------------------|---------------|---------------|---------------|---------------|----------------|----------------|
| | (mm) | 0.39 +0.03/-0.02 | 0.72 ± 0.03 | 0.36 ± 0.03 | 1.50 ± 0.10 | 178 ± 1.00 | 54.4 ± 0.40 | 13.0 ± 0.20 |
| | (inch) | 0.015 +0.001/0.001 | 0.028 ± 0.001 | 0.014 ± 0.001 | 0.059 ± 0.004 | 7.008 ± 0.039 | 2.142 ± 0.016 | 0.512 ± 0.008 |

| 0201 (DFN0603) | SYMBOL | E | F | P | P ₀ | P ₁ | T | W | W ₁ |
|-------------------|--------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | (mm) | 1.75 ± 0.10 | 3.50 ± 0.05 | 2.00 ± 0.05 | 4.00 ± 0.05 | 2.00 ± 0.05 | 0.23 ± 0.05 | 8.00 ± 0.10 | 12.30 ± 0.10 |
| | (inch) | 0.069 ± 0.004 | 0.138 ± 0.002 | 0.079 ± 0.004 | 0.157 ± 0.004 | 0.079 ± 0.004 | 0.009 ± 0.002 | 0.315 ± 0.008 | 0.484 ± 0.004 |

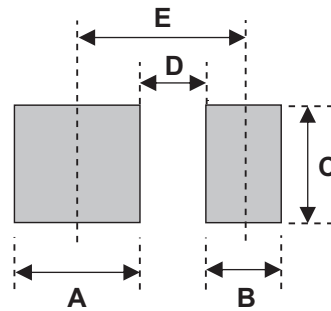
Marking Code

| Part Number | Marking Code |
|-------------|--------------|
| CZRZ5V6B-HF | 7 |



Suggested PAD Layout

| SIZE | 0201/DFN0603 | |
|------|--------------|--------|
| | (mm) | (inch) |
| A | 0.310 | 0.122 |
| B | 0.200 | 0.079 |
| C | 0.350 | 0.014 |
| D | 0.150 | 0.006 |
| E | 0.365 | 0.014 |



Standard Packaging

| Case Type | Qty Per Reel | Reel Size |
|--------------|--------------|-----------|
| | (Pcs) | (inch) |
| 0201/DFN0603 | 8,000 | 7 |