



# DP10C150

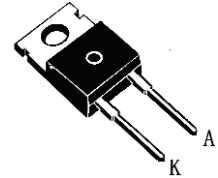
## 主要参数 MAIN CHARACTERISTICS

|                                  |        |
|----------------------------------|--------|
| $I_F(AV)$                        | 15A    |
| $V_{RRM}$                        | 1400 V |
| $T_j(max)$                       | 150°C  |
| $V_F(typ)@15A, T_j = 25^\circ C$ | 1.1V   |

## 封装 Package

K  A

TO-220C2L



## 用途

- 吸收回路
- 开关电源
- 高频开关器件并联二极管

## APPLICATIONS

- Snubber diode
- Switch power supply
- Antiparalle Diode for high frequency switching devices

## 产品特性

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

## FEATURES

- Low power loss, high efficiency
- High reliability
- RoHS product

## 订货信息 ORDER MESSAGE

| 订货型号 Order codes      |                            | 印 记<br>Marking | 封 装<br>Package |
|-----------------------|----------------------------|----------------|----------------|
| 有卤-条管<br>Halogen-Tube | 无卤-条管<br>Halogen Free-Tube |                |                |
| DP10C150-CL-B         | DP10C150-CL-BR             | DP10C150       | TO-220C2L      |



绝对最大额定值 ABSOLUTE RATINGS ( $T_c=25^{\circ}\text{C}$ )

| 项 目<br>Parameter                                                        | 符 号<br>Symbol | 数 值<br>Value  | 单 位<br>Unit        |
|-------------------------------------------------------------------------|---------------|---------------|--------------------|
| 反向重复峰值电压<br>Peak Repetitive Reverse Voltage                             | $V_{RRM}$     | 1400          | V                  |
| 平均正向整流电流 $T_c=100^{\circ}\text{C}$<br>Average Forward Rectified Current | $I_{F(AV)}$   | 15            | A                  |
| 非重复浪涌正向电流<br>Non-Repetitive Surge Forward Current $t=8.3\text{ms}$      | $I_{FSM}$     | 100           | A                  |
| 结温<br>Junction Temperature                                              | $T_j$         | $-50\sim+150$ | $^{\circ}\text{C}$ |
| 存储温度<br>Storage temperature range                                       | $T_{STG}$     | $-50\sim+150$ | $^{\circ}\text{C}$ |

电特性 ELECTRICAL CHARACTERISTICS ( $T_c=25^{\circ}\text{C}$  unless otherwise specified)

| 项 目<br>Parameter | 测试条件<br>Tests conditions  |                  | 最小值<br>Value(min) | 典型值<br>Value(typ) | 最大值<br>Value(max) | 单位<br>Unit    |
|------------------|---------------------------|------------------|-------------------|-------------------|-------------------|---------------|
| $V_R$            | $I_R=100\mu\text{A}$      |                  | 1400              | -                 | -                 | V             |
| $I_R$            | $T_j=25^{\circ}\text{C}$  | $V_R=V_{RRM}$    | -                 | -                 | 10                | $\mu\text{A}$ |
|                  | $T_j=150^{\circ}\text{C}$ |                  | -                 | -                 | 20                | $\mu\text{A}$ |
| $V_F$            | $T_j=25^{\circ}\text{C}$  | $I_F=15\text{A}$ | -                 | 1.1               | 1.2               | V             |
|                  | $T_j=150^{\circ}\text{C}$ |                  | -                 | 1.0               | 1.08              | V             |

## 热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

| 项 目<br>Parameter                               | 符 号<br>Symbol | 封 装<br>Package | 最大值<br>Value(max) | 单 位<br>Unit          |
|------------------------------------------------|---------------|----------------|-------------------|----------------------|
| 结到管壳的热阻<br>Thermal Resistance Junction to Case | $R_{th(j-c)}$ | TO-220C2L      | 2.0               | $^{\circ}\text{C/W}$ |





## 特征曲线 ELECTRICAL CHARACTERISTICS

Fig.1 TYPICAL FORWARD CHARACTERISTICS

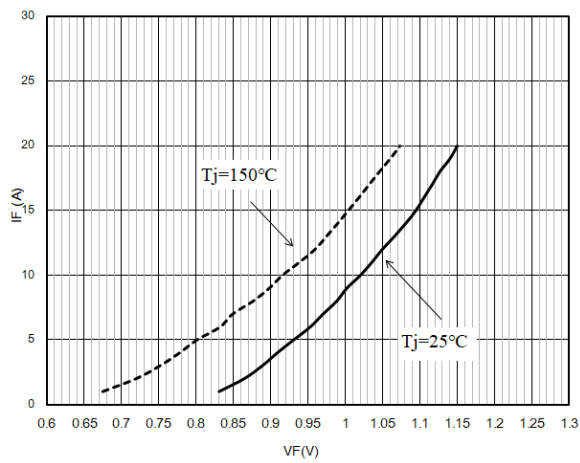
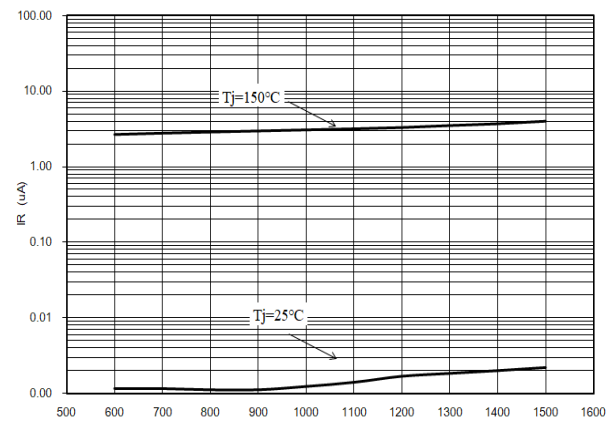


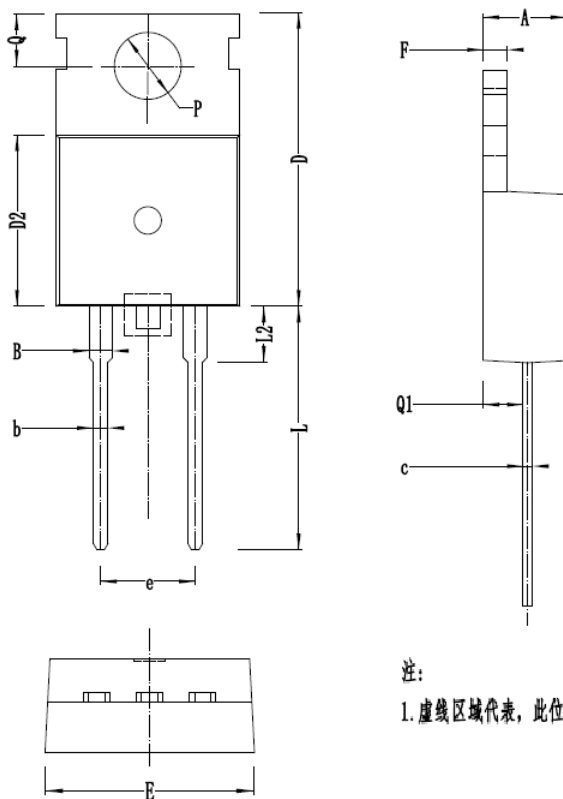
Fig.2 TYPICAL REVERSE CHARACTERISTICS



## 外形尺寸 PACKAGE MECHANICAL DATA

## TO-220C2L

单位 Unit : mm



| 符号<br>symbol | 单位: mm |       |
|--------------|--------|-------|
|              | MIN    | MAX   |
| A            | 4.30   | 4.70  |
| B            | 1.22   | 1.40  |
| b            | 0.70   | 0.95  |
| c            | 0.40   | 0.65  |
| D            | 15.20  | 16.20 |
| D2           | 9.00   | 9.40  |
| E            | 9.70   | 10.10 |
| e            | 4.78   | 5.38  |
| F            | 1.25   | 1.40  |
| L            | 12.60  | 13.60 |
| L2           | 2.80   | 3.20  |
| ΦP           | 3.50   | 3.80  |
| Q            | 2.60   | 3.00  |
| Q1           | 2.20   | 2.60  |

注:

1. 虚线区域代表, 此位置有、无余留, 均为我司受控外形;





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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知。

### NOTE

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