

### ■ Productor Character

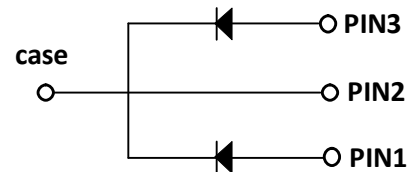
- Half Bridge Rectified、Common Cathode Structure.
- Multilayer Metal -Silicon Potential Structure.
- Beautiful High Temperature Character.
- Have Over Voltage protect loop, high reliability.
- RoHs Product.

### ■ Primary Use

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

### ■ Summarize

- BD1060CS/BD1060CT Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.



## Absolute Maximum Ratings

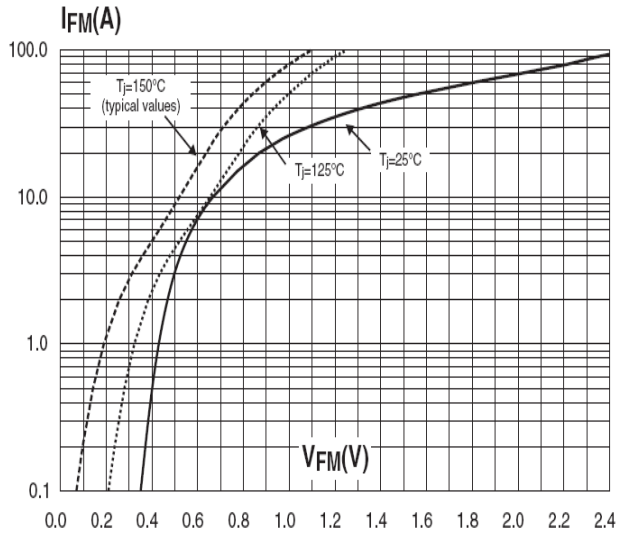
|                                                                                        |      |           |     |
|----------------------------------------------------------------------------------------|------|-----------|-----|
| Maximal Inverted Repetitive Peak Voltage                                               | VRRM | 60        | V   |
| Maximal DC Interdiction Voltage                                                        | VDC  | 60        | V   |
| Average Rectified Forward Current TC=150℃ Whole Device                                 | IFAV | 10        | A   |
| Unilateral                                                                             |      | 5         |     |
| Forward Peak Surge Current (Rated Load 8.3 Half Mssine Wave-According to JEDEC Method) | IFSM | 120       | A   |
| Operating Junction Temperature                                                         | TJ   | -40- +150 | ℃   |
| Storage Temperature                                                                    | TSTG | -40- +150 | ℃   |
| Maximum Thermal Resistance Junction-to-Case                                            | RθJC | 4.0       | ℃/W |

## Electricity Character

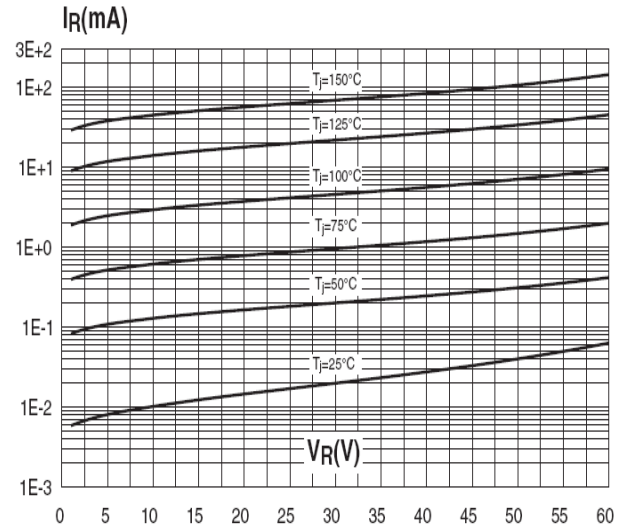
| Item | Test Condition |         | Minimum | Representative | Maximum | Unit |
|------|----------------|---------|---------|----------------|---------|------|
| IR   | TJ =25℃        | VR=VRRM |         |                | 100     | uA   |
|      | TJ =125℃       |         |         |                | 10      | mA   |
| VF   | TJ =25℃        | IF=5A   |         |                | 0.65    | V    |

\*IF(AV)= 5A×2

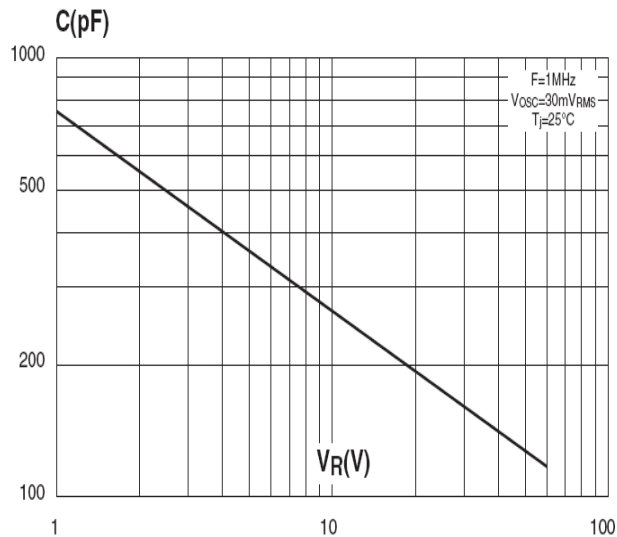
The forward voltage and forward current curve



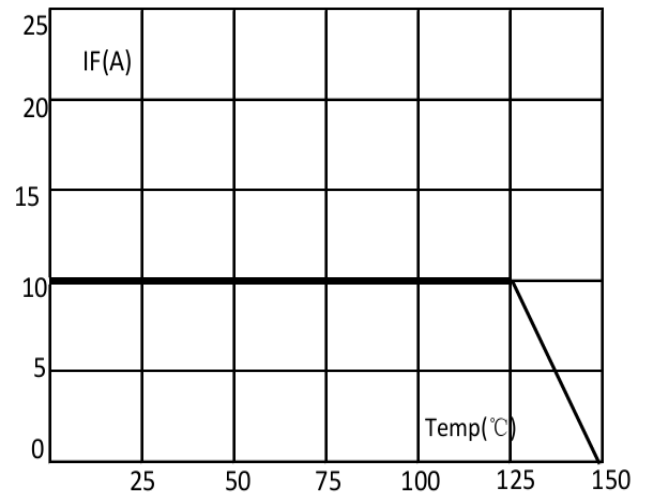
The reverse leak current and the reverse voltage (single-device) curve

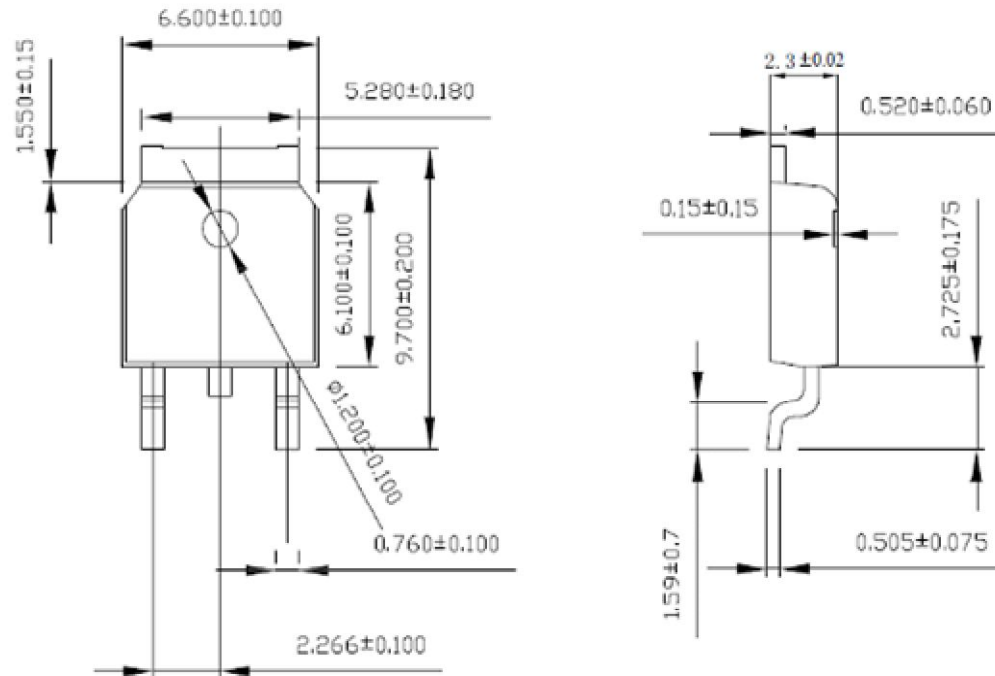
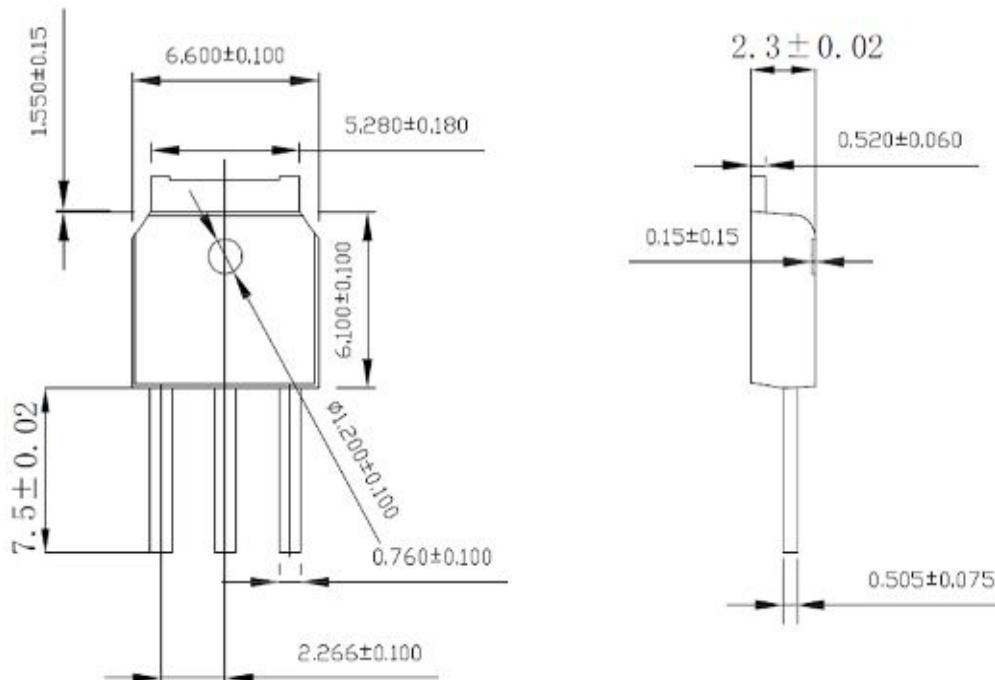


The crunode capacitance curve



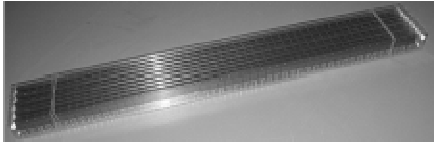
Current Derating Curve, Per Element



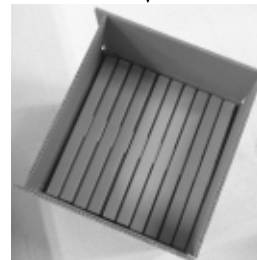
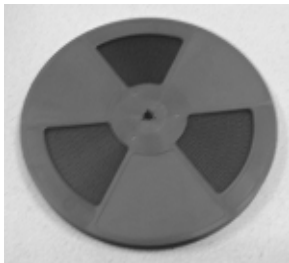
**Package Outline Dimensions****TO-252-2L****TO-251-3L**

### Packing Information

| Part Number     | Quantity     | Size (mm)   |
|-----------------|--------------|-------------|
| tube            | 80 pieces    | 540*15*5    |
| inner box       | 4000 pieces  | 554*135*70  |
| outer container | 40000 pieces | 572*382*300 |



| Part Number     | Quantity     | Size (mm)   |
|-----------------|--------------|-------------|
| reel            | 50 pieces    | 330*25      |
| inner box       | 2500 pieces  | 340*336*29  |
| outer container | 25000 pieces | 353*346*365 |



### Marking



BD1060CT

XXXX

1.BD1060CT/BD1060CS 为产品型号

2.XXXX代表日期码，第一码表示公元年的最后一码，第二码表示生产时当月码 (A,B,C...为一月，二月，三月...),第三，四码表示大量生产时批次码  
例如:2013年第一月生产的，D/C为HAXX。

3.TO-252封装型号后面加“CS”，TO-251封装型号后面加“CT”