

## BVE5KSMJB26CA

### Description 描述

TVS diodes can be used in a wide range of applications which like consumer electronic products, automotive industries, telecommunications and intelligent control systems.

TVS 二极管可广泛应用于消费电子产品、汽车工业、电信和智能控制系统等领域。

### Features

#### 特性

- Low profile package  
小体积包装
- Ideal for automated placement  
包装适合自动贴片
- Excellent clamping capability  
优秀的电压钳位能力
- Low incremental surge resistance  
低增量浪涌能力
- 5000W peak pulse power capability with a 10/1000  $\mu$ s waveform  
10/1000us 时峰值脉冲功率 5000W
- Hi reliability application and automotive grade AEC-Q101 qualified  
高可靠性应用和汽车级 AEC-Q101 合格



DO-214AB(SMC)



### Applications

#### 应用

- Automotive industries  
汽车工业
- Surge resistance protection  
浪涌保护

| Part Number<br>型号 | $V_{RWM}[V]$<br>反向隔离电压 | $P_{PPM}[W](10/1000us)$<br>峰值脉冲功率 | $T_{Jmax}[^{\circ}C]$<br>最高结温 | Marking<br>标记 | Package<br>封装 |
|-------------------|------------------------|-----------------------------------|-------------------------------|---------------|---------------|
| BVE5KSMJB26CA     | 26                     | 5000                              | 150                           | 50B26CAX      | DO-214AB(SMC) |

**BVE5KSMJB26CA****Maximum Rated Values****最大额定参数**

| Parameter<br>参数                                                | Symbol<br>符号     | Value<br>值  | Unit<br>单位 |
|----------------------------------------------------------------|------------------|-------------|------------|
| Peak pulse power dissipation at 10/1000μs<br>10/1000μs 时脉冲峰值功率 | P <sub>PP</sub>  | 5000        | W          |
| Operating junction temperature<br>工作结温                         | T <sub>J</sub>   | -55 to +150 | °C         |
| Storage temperature<br>储存温度                                    | T <sub>STG</sub> | -55 to +150 | °C         |

**Electrical Characteristic at (T<sub>A</sub> = 25°C , unless otherwise specified)****电学特性 (T<sub>A</sub>=25°C, 除非特别声明)**

| Parameter<br>参数                     | Symbol<br>符号     | Conditions<br>条件                                    | Value<br>值  |             |             | Unit<br>单位 |
|-------------------------------------|------------------|-----------------------------------------------------|-------------|-------------|-------------|------------|
|                                     |                  |                                                     | Min.<br>最小值 | Typ.<br>典型值 | Max.<br>最大值 |            |
| Reverse Stand-Off Voltage<br>反向隔离电压 | V <sub>RWM</sub> | -                                                   | -           | -           | 26          | V          |
| Reverse Breakdown Voltage<br>反向击穿电压 | V <sub>BR</sub>  | I <sub>T</sub> =1mA                                 | 28.9        | -           | 31.9        | V          |
| Reverse Leakage Current<br>反向漏电流    | I <sub>R</sub>   | V <sub>RWM</sub> =26V                               | -           | -           | 2           | μA         |
| Peak Pulse Current<br>峰值脉冲电流        | I <sub>PP</sub>  | t <sub>p</sub> =10/1000μs                           | -           | -           | 119         | A          |
| Clamping Voltage<br>钳位电压            | V <sub>C</sub>   | I <sub>PP</sub> =119A,<br>t <sub>p</sub> =10/1000μs | -           | -           | 42.1        | V          |

## BVE5KSMJB26CA

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ , unless otherwise specified)

特性曲线 ( $T_A = 25^\circ\text{C}$ , 除非特别声明)

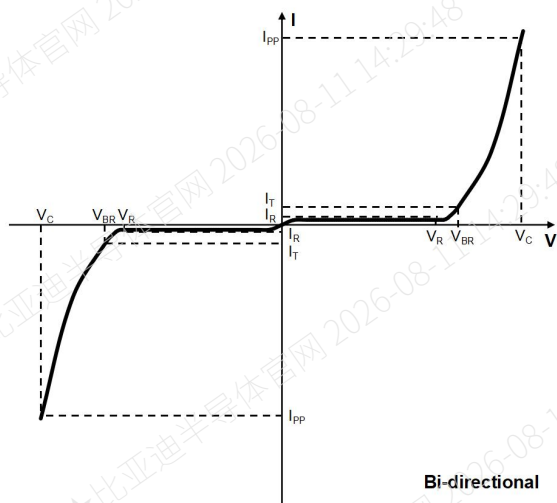


Fig.1 I-V Curve Characteristics

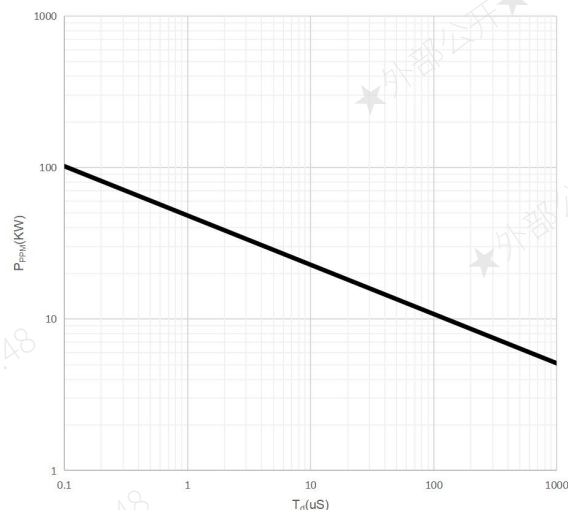


Fig.2 Peak Pulse Power Rating

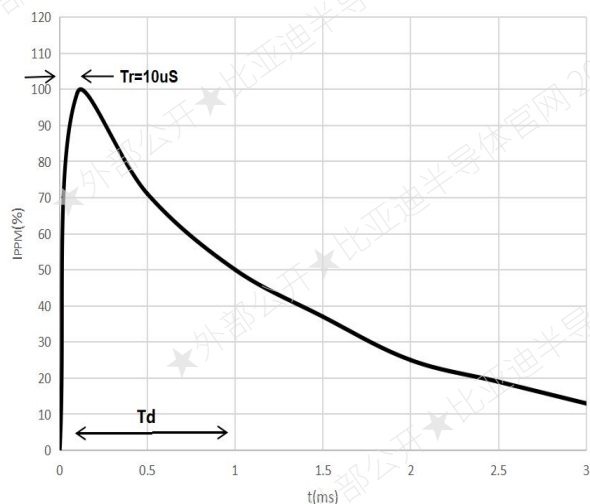


Fig.3 Clamping Power Pulse Waveform

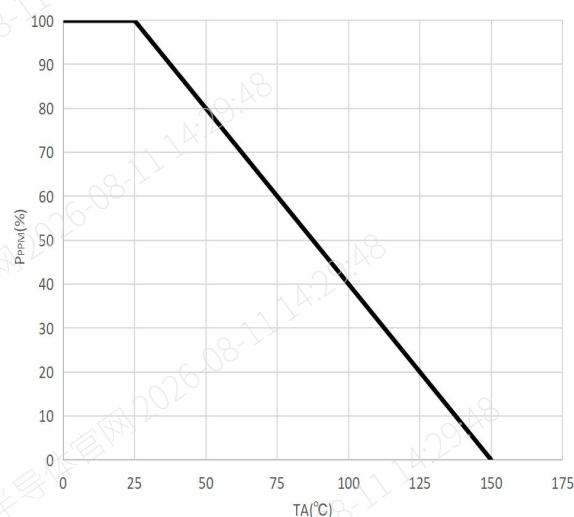
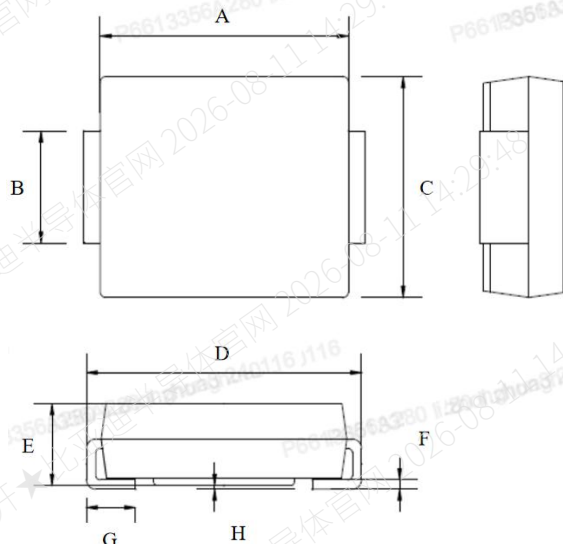


Fig.4 Pulse Derating Curve

# BVE5KSMJB26CA

## DO-214AB (SMC) Outline Dimensions

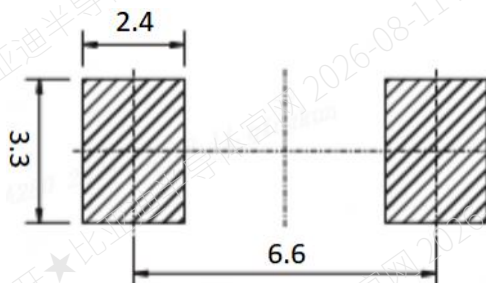
## DO-214AB (SMC)外形尺寸



| DO-214AB(单位: mm) |      |      |
|------------------|------|------|
| Dim              | Min  | Max  |
| A                | 6.60 | 7.11 |
| B                | 2.90 | 3.20 |
| C                | 5.59 | 6.22 |
| D                | 7.75 | 8.13 |
| E                | 2.05 | 2.46 |
| F                | 0.15 | 0.41 |
| G                | 0.76 | 1.52 |
| H                | 0.10 | 0.25 |

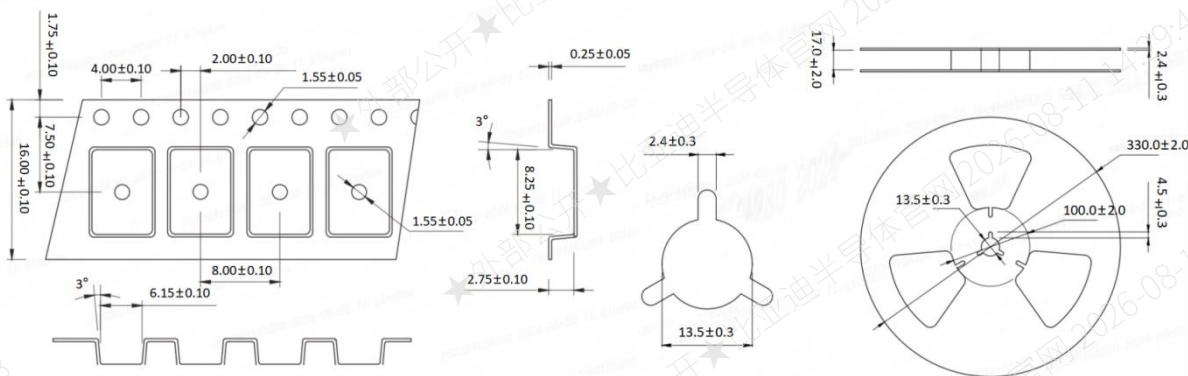
## Suggested Pad Layout (Unit: mm)

## 建议焊盘布局 (单位: mm)



## Tape and Reel Specification (Unit: mm)

## 编带和卷盘规格 (单位: mm)



| Packing<br>包装 | pcs/reel<br>个/卷盘 | reel/inner box<br>卷盘/内盒 | inner box/carton<br>内盒/外箱 | pcs/carton<br>个/外箱 |
|---------------|------------------|-------------------------|---------------------------|--------------------|
| Reel 卷盘       | 3000             | 2                       | 10                        | 60000              |

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