

## Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals
- ◆ Glass Passivated Chip Junction
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives
- ◆ RoHS Compliant
- ◆ Halogen Free

## 特征

- ◆ 塑封包装具有保险商实验室易燃性分类 94V-0
- ◆ 保证端子处高温焊接: 260°C/10 秒
- ◆ 玻璃钝化芯片结
- ◆ 无铅,符合欧盟 RoHS 2011/65/EU 指令
- ◆ 符合 RoHS 标准
- ◆ 无卤



**DO-213AA**  
**Mini MELF**



## MECHANICAL DATA 器件数据

- ◆ Case: DO-213AA 壳体: JEDEC Mini MELF(DO-213AA)  
molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026  
接触端: 可根据 MIL-STD-750, 方法 2026 进行焊接

## Application 应用

- ◆ General purpose rectification of power supplies 电源通用整流
- ◆ Inverters 逆变器
- ◆ Converters 转换器
- ◆ Freewheeling diodes for consumer and telecommunication  
消费类产品和电通信用续流二极管

## ORDERING INFORMATION 订购信息

| Device Type<br>器件型号          | Package<br>封装         | Reel Size<br>卷盘尺寸 | SPQ<br>标准包装量 | MPQ<br>最小包装数量 | MOQ<br>最小订购数量   |
|------------------------------|-----------------------|-------------------|--------------|---------------|-----------------|
| CLL4001G<br>THRU<br>CLL4007G | DO-213AA<br>Mini MELF | 7 Inch 英寸         | 2500/Reel 卷  | 25000/Box 盒   | 100000/Carton 箱 |

**Maximum Ratings** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

**最大额定值**(如无另外标识, 环境温度=25°C)

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

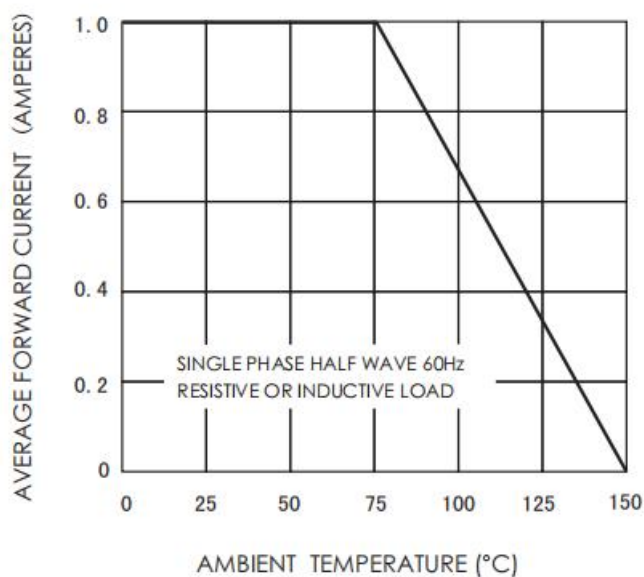
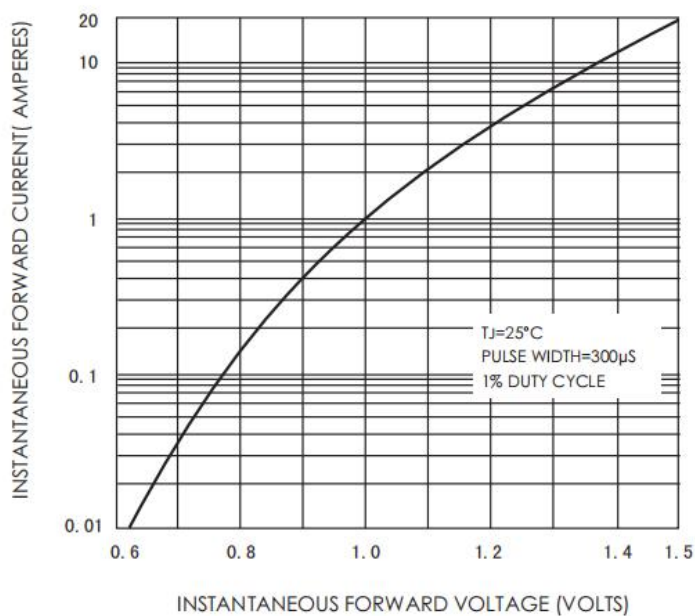
单相半波 60 Hz, 电阻或电感负载, 电容负载电流减额 20%。

| Parameter<br>参数                                                                         | Symbol<br>符号      | Note                                                                | CLL<br>4001G | CLL<br>4002G | CLL<br>4003G | CLL<br>4004G | CLL<br>4005G | CLL<br>4006G | CLL<br>4007G | Unit<br>单位 |
|-----------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Maximum repetitive peak reverse voltage<br>最大重复峰值反向电压                                   | V <sub>RRM</sub>  | /                                                                   | 50           | 100          | 200          | 400          | 600          | 800          | 1000         | V          |
| Maximum RMS Voltage<br>最大反向有效电压                                                         | V <sub>RMS</sub>  | /                                                                   | 35           | 70           | 140          | 280          | 420          | 560          | 700          | V          |
| Maximum DC Blocking Voltage<br>最大直流截止电压                                                 | V <sub>DC</sub>   | /                                                                   | 50           | 100          | 200          | 400          | 600          | 800          | 1000         | V          |
| Maximum Average Forward Rectified Current<br>最大正向平均整流电流                                 | I <sub>(AV)</sub> | /                                                                   | 1            |              |              |              |              |              |              | A          |
| Peak Forward Surge Current<br>峰值正向浪涌电流                                                  | I <sub>FSM</sub>  | 8.3 ms<br>Single Half<br>Sine Wave<br>Superimposed on<br>Rated Load | 25           |              |              |              |              |              |              | A          |
| Maximum Instantaneous Forward Voltage @1.0A<br>最大瞬时正向电压 @1.0A                           | V <sub>F</sub>    | /                                                                   | 1.1          |              |              |              |              |              |              | V          |
| Maximum DC Reverse Current rated DC Blocking Voltage per element<br>在额定直流截止电压下的最大直流反向电流 | I <sub>R</sub>    | T <sub>A</sub> =25°C                                                | 5            |              |              |              |              |              |              | μA         |
|                                                                                         |                   | T <sub>A</sub> =125°C                                               | 50           |              |              |              |              |              |              |            |
| Operating Junction Temperature<br>工作结点温度                                                | T <sub>J</sub>    | /                                                                   | -55 to +150  |              |              |              |              |              |              | °C         |
| Storage Temperature Range<br>储存温度范围                                                     | T <sub>STG</sub>  | /                                                                   | -55 to +150  |              |              |              |              |              |              | °C         |
| Typical Junction Capacitance (1)<br>典型结电容                                               | C <sub>j</sub>    | /                                                                   | 15           |              |              |              |              |              |              | pF         |
| Typical Thermal Resistance<br>典型热阻                                                      | R <sub>θJA</sub>  | /                                                                   | 75           |              |              |              |              |              |              | °C/W       |
|                                                                                         | R <sub>θJL</sub>  | /                                                                   | 30           |              |              |              |              |              |              | °C/W       |

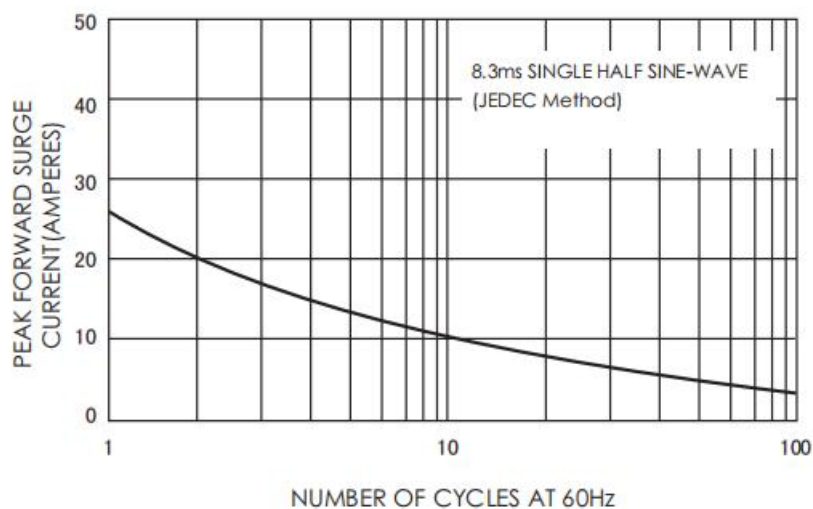
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

在 1 MHz 下测量, 施加 4 V 直流反向电压。

## Characteristic Diagram 特性图

**DO-213AA**
**Mini MELF**
**FIG.1-FORWARD CURRENT DERATING CURVE**

**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**


**FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**

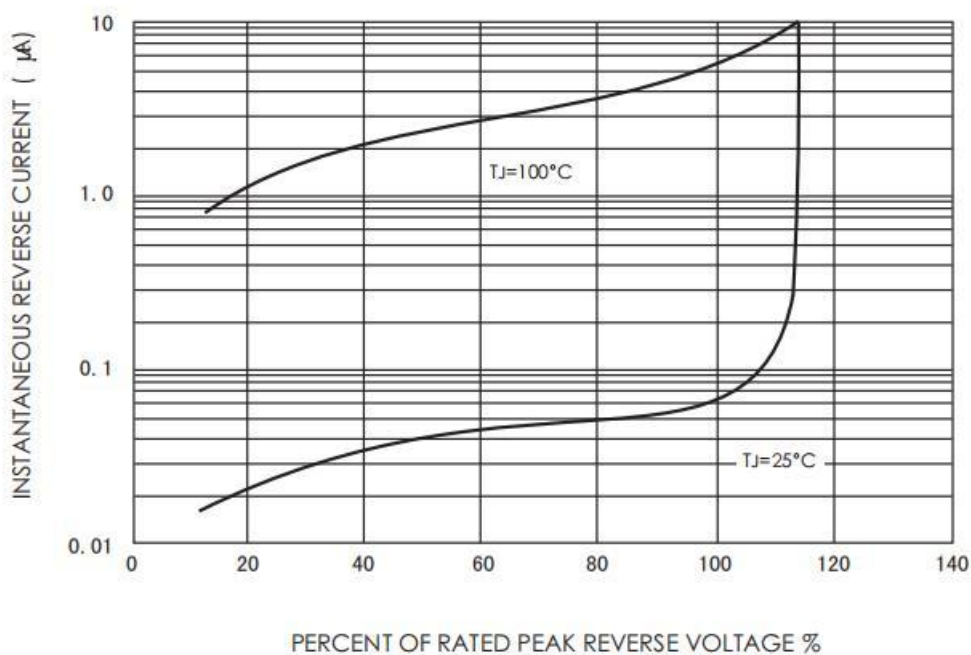
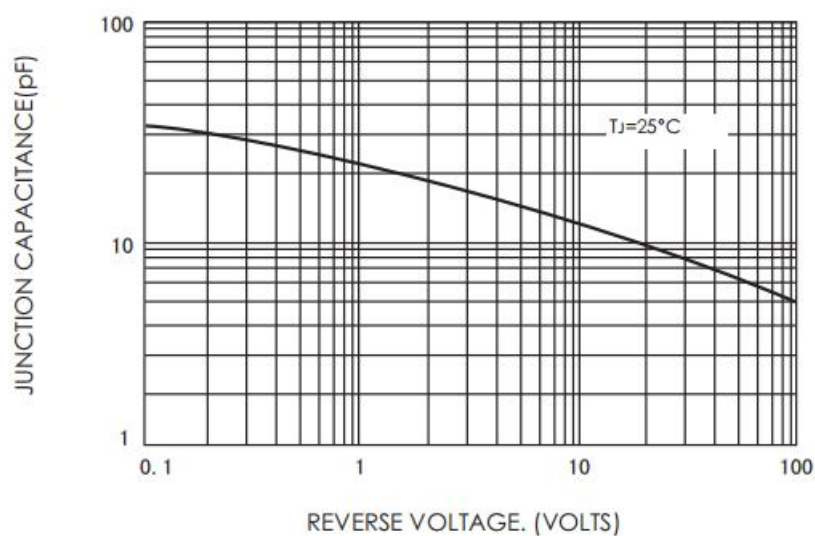
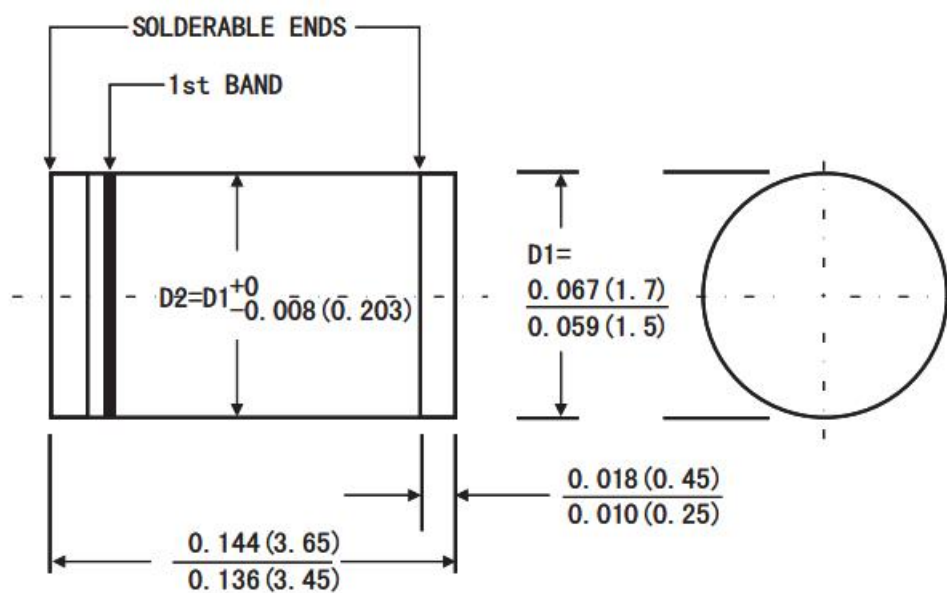


FIG.5-TYPICAL JUNCTION CAPACITANCE



**Package 封装信息**

## MiniMELF(DO-213AA)



Dimensions in inches and (millimeters)

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