

2A,50-1000V Standard Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260°C/10 seconds



DO-15(DO-204AC)

Applications

• Small battery charger, Power supplies

| Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted) | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------|--------------------|-------------|--------|--------|--------|--------|--------|--------|------|
| Parameter | Symbol | RL201G | RL202G | RL203G | RL204G | RL205G | RL206G | RL207G | Unit |
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current | I _{F(AV)} | | 2 | | | | | | A |
| Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode | Ifsm | 55 | | | | | | A | |
| Operating junction temperature range | TJ | -55 to +150 | | | | | °C | | |
| Storage temperature range | T _{STG} | -55 to +150 | | | | | | °C | |

| Thermal-Mechanical Specifications (TA=25°C unless otherwise noted) | | | | | | | | |
|--------------------------------------------------------------------|------------------|-----|-------|--|--|--|--|--|
| Parameter | Symbol | Тур | Unit | | | | | |
| Thermal Resistance, Junction to Ambient | Reja | 60 | °C /W | | | | | |
| Thermal Resistance, Junction to Case | R _{θJC} | 25 | °C /W | | | | | |
| Thermal Resistance, Junction to Lead | R _{eJL} | 22 | °C /W | | | | | |



RL201G thru RL207G GOOD-ARK Electronics

| Electrical Specifications (TA=25°C unless otherwise noted) | | | | | | | | | | |
|------------------------------------------------------------|--------|-------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|------|
| Parameter | Symbol | Test Conditions | RL201G | RL202G | RL203G | RL204G | RL205G | RL206G | RL207G | Unit |
| Forward Drop Voltage | VF | I⊧=2A | 1.10 | | | | | V | | |
| Reverse leakage current @V _R | IR | TJ =25℃ | 5 | | | | | | - uA | |
| | | T」=125℃ | 100 | | | | | | | |
| Typical junction capacitance | CJ | 4.0 V 1 MHZ | 40 | | | | | pF | | |
| Typical reverse recovery time | trr | I _F =0.5A, I _R =1.0A, | | | | 1 | | | | uS |
| | | I _R =1.0A, I _{RR} =0.25A | | | | I | | | | 45 |

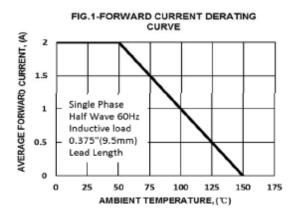
Note:

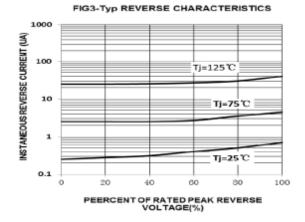
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





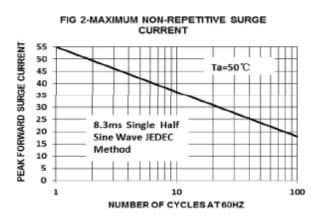
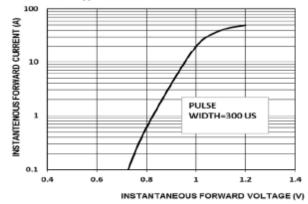


FIG 4-Typ FORWARD CHARACTERISTICS



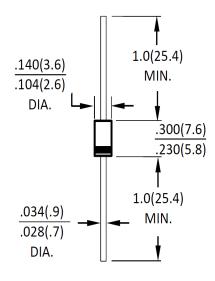


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Package Outline Dimensions

in inches (millimeters)

DO-15(DO-204AC)



Dimensions in inches and (millimeters)

Revision History

| Document Version | Date of release | Description of changes | | | | |
|------------------|-----------------|------------------------|--|--|--|--|
| Rev.A | 2021.06.01 | Released Datasheet | | | | |
| Rev.B | 2023.11.27 | Modify document format | | | | |



RL201G thru RL207G

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