

# GL41A THRU GL41M

## Surface Mount Standard Rectifier

### Features

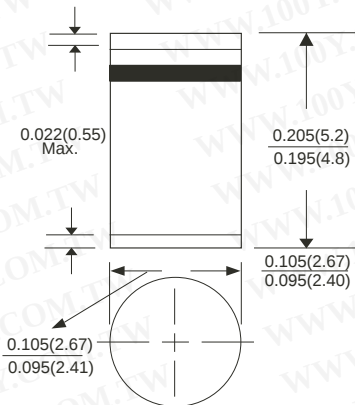
- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability
- ★ Glass passivated chip

### Mechanical Data

- ★ Case: Molded plastic DO-213AB
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any
- ★ Weight: 0.116 gram

Voltage Range 50 to 1000 V  
Current 1.0 Ampere

### DO-213AB



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

|                                                                                                   | SYMBOL  | GL41A       | GL41B | GL41D | GL41G | GL41J | GL41K | GL41M | UNIT     |
|---------------------------------------------------------------------------------------------------|---------|-------------|-------|-------|-------|-------|-------|-------|----------|
| Maximum Recurrent 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                                                                       | VDC     | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V        |
| Maximum Average Forward Rectified Current TA=75°C                                                 | I(AV)   | 1.0         |       |       |       |       |       |       | A        |
| Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method) | IFSM    | 30          |       |       |       |       |       |       | A        |
| Maximum Instantaneous Forward Voltage @ 1.0 A                                                     | VF      | 1.1         |       |       |       |       |       |       | V        |
| Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C                        | IR      | 5.0<br>100  |       |       |       |       |       |       | uA<br>uA |
| Typical junction Capacitance (Note 1)                                                             | CJ      | 8.0         |       |       |       |       |       |       | pF       |
| Typical Thermal Resistance (Note 2)                                                               | RθJA    | 75          |       |       |       |       |       |       | °C/W     |
| Operating Junction and Storage Temperature Range                                                  | TJ,TSTG | -55 to +150 |       |       |       |       |       |       | °C       |

NOTES : (1) Thermal Resistance junction to lead.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

# RATINGS AND CHARACTERISTIC CURVES GL41A THRU GL41M

FIG.1 - FORWARD CURRENT DERATING CURVE

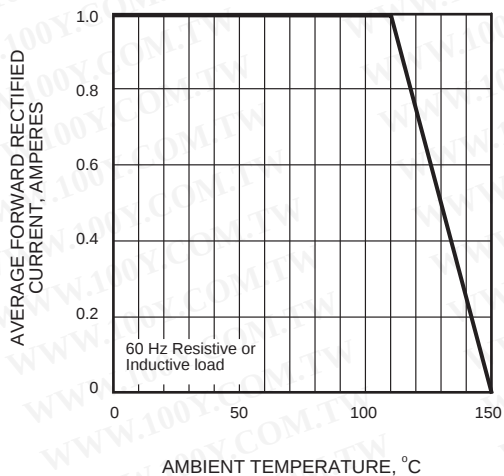


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

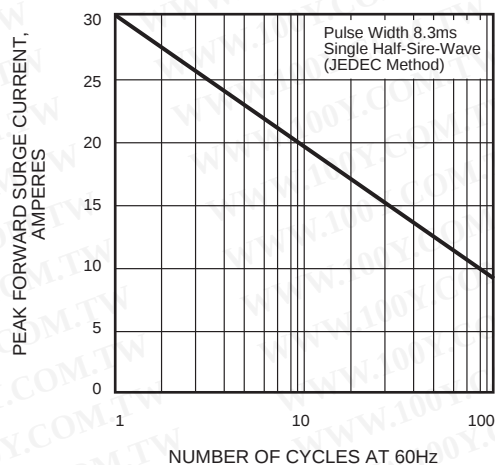


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

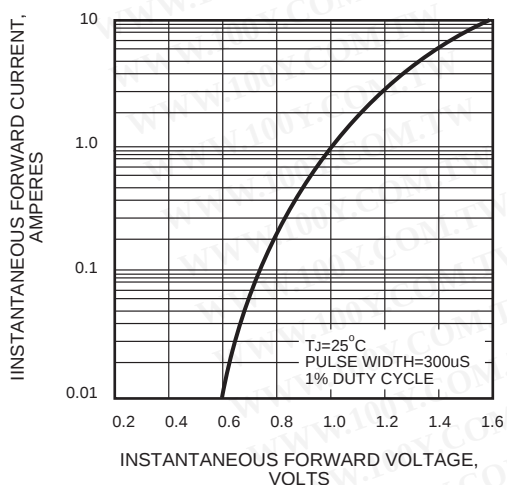


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

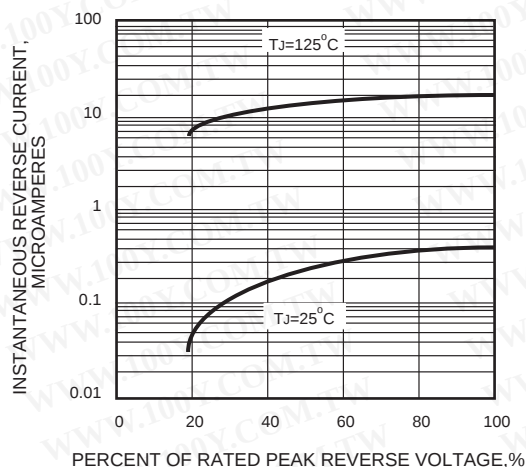
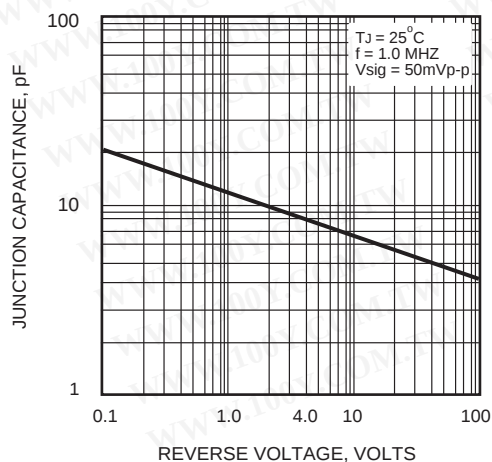


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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