

RoHS Compliant Product

A suffix of "-C" specifies halogen-free



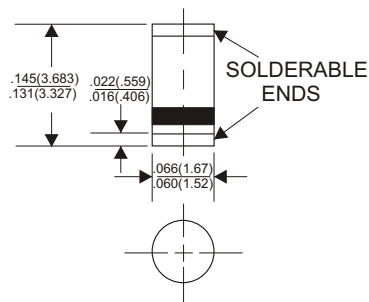
## FEATURES

- \* Low forward voltage drop
- \* Low leakage current
- \* High reliability

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.015 grams

DO-213AA/ SOD-80/ Mini Melf



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

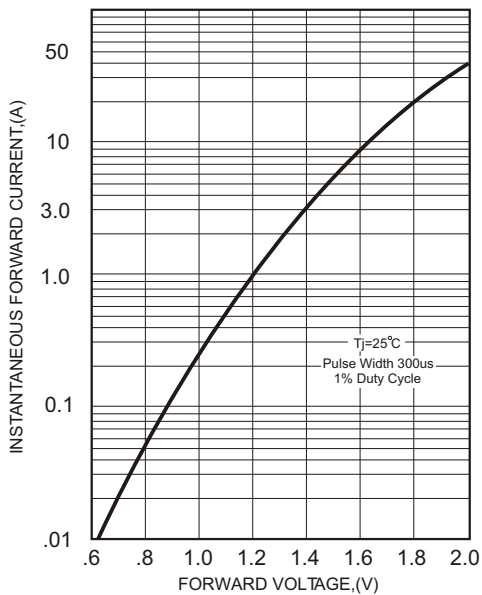
| TYPE NUMBER                                                                                           | RGL34A     | RGL34B | RGL34D | RGL34G | RGL34J | RGL34K | RGL34M | UNITS |
|-------------------------------------------------------------------------------------------------------|------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                                | 50         | 100    | 200    | 400    | 600    | 800    | 1000   | V     |
| Maximum RMS Voltage                                                                                   | 35         | 70     | 140    | 280    | 420    | 560    | 700    | V     |
| Maximum DC Blocking Voltage                                                                           | 50         | 100    | 200    | 400    | 600    | 800    | 1000   | V     |
| Maximum Average Forward Rectified Current<br>.375"(9.5mm) Lead Length at Ta=55°C                      | 0.5        |        |        |        |        |        |        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 30         |        |        |        |        |        |        | A     |
| Maximum Instantaneous Forward Voltage at 0.5A                                                         | 1.3        |        |        |        |        |        |        | V     |
| Maximum DC Reverse Current Ta=25°C                                                                    | 5.0        |        |        |        |        |        |        | μA    |
| at Rated DC Blocking Voltage Ta=100°C                                                                 | 100        |        |        |        |        |        |        | μA    |
| Maximum Reverse Recovery Time (Note 1)                                                                | 150        |        |        |        | 250    | 500    |        | nS    |
| Typical Junction Capacitance (Note 2)                                                                 | 15         |        |        |        |        |        |        | pF    |
| Operating and Storage Temperature Range Tj, Tstg                                                      | -65 — +175 |        |        |        |        |        |        | °C    |

### NOTES:

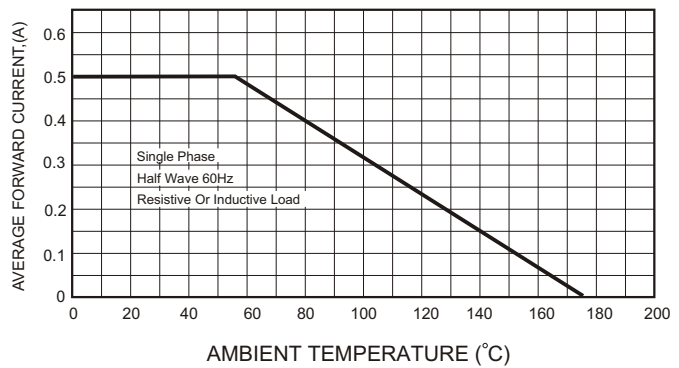
1. Reverse Recovery Time test condition: If=0.5A, Ir=1.0A, Irr=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

**RATING AND CHARACTERISTIC CURVES (RGL34A THRU RGL34M)**

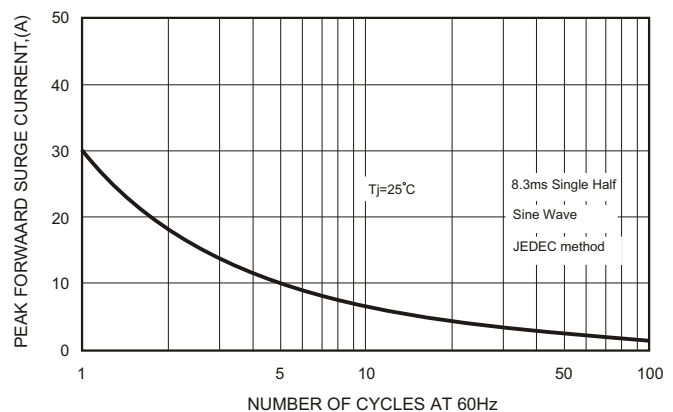
**FIG.1-TYPICAL FORWARD CHARACTERISTICS**



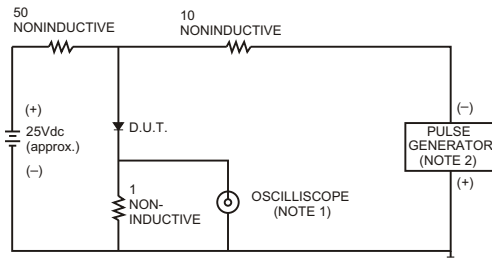
**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



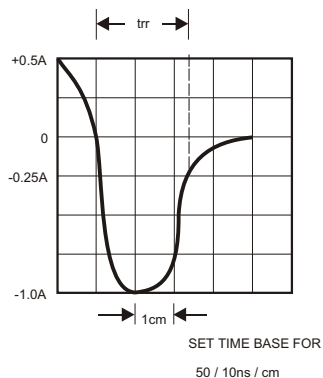
**FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS**



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.  
2. Rise Time= 10ns max., Source Impedance= 50 ohms.



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

