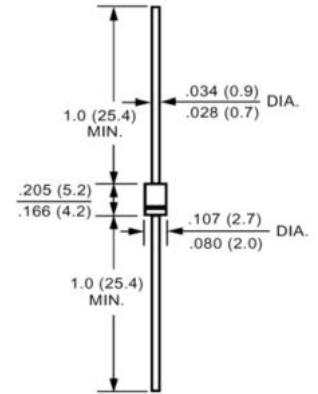


**FEATURES:**

Fast switching for high efficiency  
High surge current capability

**SPECIFICATION:**

|                   |                                 |
|-------------------|---------------------------------|
| Case              | Molded plastic, DO-41           |
| Epoxy             | UL 94V-0 rate flame retardant   |
| Lead              | Axial leads                     |
| Polarity          | Colour band denotes cathode end |
| Mounting position | Any                             |



**Art. Nr.**  
**RND 1N4935**

**Maximum Ratings and Electrical Characteristics**

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

| Parameter  | Symbols         | RND 1N4933    | RND 1N4934 | RND 1N4935 | RND 1N4936 | RND 1N4937 | Units              |
|--|-----------------|---------------|------------|------------|------------|------------|--------------------|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$       | 50            | 100        | 200        | 400        | 600        | V                  |
| Maximum RMS Voltage  | $V_{RMS}$       | 35            | 70         | 140        | 280        | 420        | V                  |
| Maximum DC Blocking Voltage  | $V_{DC}$        | 50            | 100        | 200        | 400        | 600        | V                  |
| Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_A = 50\text{ }^\circ\text{C}$                  | $I_{F(AV)}$     | 1             |            |            |            |            | A                  |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)                          | $I_{FSM}$       | 30            |            |            |            |            | A                  |
| Maximum Forward Voltage at 1 A   | $V_F$           | 1.2           |            |            |            |            | V                  |
| Maximum Reverse Current at $T_A = 25\text{ }^\circ\text{C}$<br>Rated DC Blocking Voltage $T_A = 125\text{ }^\circ\text{C}$ | $I_R$           | 5<br>50       |            |            |            |            | $\mu\text{A}$      |
| Maximum Reverse Recovery Time <sup>1)</sup>  | $t_{rr}$        | 150           |            |            |            |            | ns                 |
| Typical Thermal Resistance, Junction to Ambient <sup>2)</sup>  | $R_{\theta JA}$ | 55            |            |            |            |            | $^\circ\text{C/W}$ |
| Typical Thermal Resistance, Junction to Lead <sup>2)</sup>   | $R_{\theta JL}$ | 25            |            |            |            |            | $^\circ\text{C/W}$ |
| Operating Junction temperature range   | $T_j$           | - 55 to + 125 |            |            |            |            | $^\circ\text{C}$   |
| Storage Temperature range  | $T_{stg}$       | - 55 to + 150 |            |            |            |            | $^\circ\text{C}$   |

1) Reverse recovery test conditions:  $I_F = 0.5\text{ A}$ ,  $I_R = 1\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$ .

2) Thermal resistance from junction to ambient 0.375"(9.5 mm) lead length P.C.B mounted.

# Rectifier Diodes, Standard

## Standart Rectifier Diodes, Axial Lead

