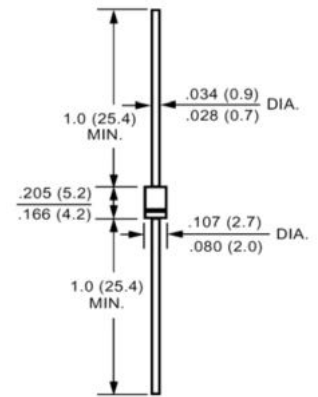


## FEATURES:

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 1N4937**

## 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 $T_A = 25\text{ }^\circ\text{C}$ Rated DC Blocking Voltage $T_A = 125\text{ }^\circ\text{C}$	$I_R$	5 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

