

Rectifier Diodes, Standard

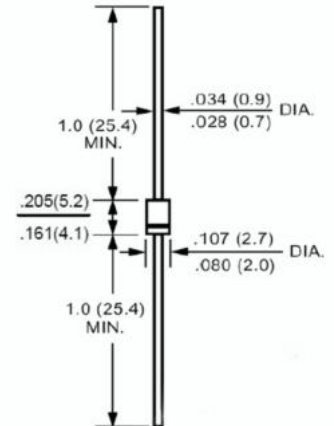


FEATURES:

- General purpose plastic silicon rectifier
- Low forward voltage drop
- High current capability
- 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 1N4006

Absolute Maximum Ratings and 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 1N4001	RND 1N4002	RND 1N4003	RND 1N4004	RND 1N4005	RND 1N4006	RND 1N4007	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	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 0.375" (9.5 mm) Lead Length at $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1							A
Peak Forward Surge Current, 8.3 ms Single Half-sine-wave Superimposed on rated load	I_{FSM}	30							A
Maximum Forward Voltage at 1 A DC and 25°C	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	5 50							μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	55							$^\circ\text{C/W}$
Typical Thermal Resistance, Junction to Lead	$R_{\theta JL}$	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							$^\circ\text{C}$

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Standart Rectifier Diodes, Axial Lead

