

# STANDARD RECOVERY RECTIFIERS



1N4001 - 1N4007

DO-41 (Plastic) Axial Lead Plastic Package

## These Axial Lead Mounted Rectifiers are used for General-Purpose Low-Power Applications

DESCRIPTION	SYMBOL	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blockng Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
Non-Repetitive Peak Reverse Voltage (halfwave, single phase, 60Hz)	V <sub>RSM</sub>	60	120	240	480	720	1000	1200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Current 0.375 " lead length @ T <sub>a</sub> =75ºC	Ι <sub>ο</sub>	1.0						А	
Non-Repetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30						A	
Thermal Resistance from Junction to Ambient in free air	R <sub>th (j-a)</sub>	50						°C/W	
StorageTemperature Range	T <sub>stg</sub>	- 55 to +150						°C	
Operating Junction Temperature	Τ <sub>j</sub>	-55 to +125						°C	

## ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

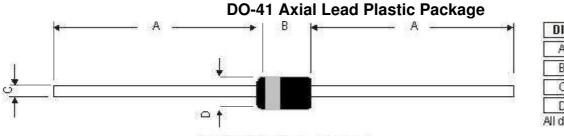
### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless specified otherwise )

DESCRIPTION	SYMBOL	TEST CONDITION	MAX	UNIT
Maximum Instantaneous Forward Voltage	VF	I <sub>E</sub> = 1.0A	1.1	V
Drop	• F	·F ·····		v
Maximum Full-Cycle Average Forward Voltage Drop	V <sub>F(AV)</sub>	I <sub>O</sub> =1.0A, T <sub>a</sub> =75°C	0.8	V
Maximum Reverse Current	I <sub>R</sub>	(a) rated $V_R$ $T_a = 25^{\circ}$		μA
		T <sub>a</sub> = 100°	C 500	μA
Maximum Full-Cycle Average Reverse Current	I <sub>R(AV)</sub>	I <sub>O</sub> =1.0A, T <sub>a</sub> =75°C	30	μA
Junction Capacitance	Cj	$V_R$ = 4V, f = 1MHz	typ 15	pF

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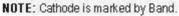
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All dimensions are in mm.



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# DO-41, 52mm Taping Specification

# 52 mm Taping Specification

- 1. T & A indicates Axial Tape and Ammo Packing (52 mm Tape Spacing).
- 2. 300 mm (min) leader tape on every tape.
- No. of empty places allowed 0.25% without consecutive empty places.
- Ends of leads shall preferably not protrude beyond the tapes.
- Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

All dimensions are in mm.

# Packing in Ammo Pack: 5000 pcs./Ammo Pack

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## Disclaimer

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