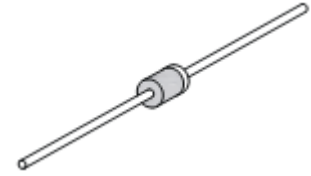


1A Standard Rectifiers

Features

- Low forward voltage drop
- Low leakage current
- High forward surge current capability
- High temperature soldering guaranteed: 265°C/10 seconds
/.037" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliance



**DO-204AL
(DO-41)**



Mechanical Data

Case:	DO-204AL, molded epoxy body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.012 ounce, 0.33 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Maximum Average Forward Rectified Current	1.0							A	0.375" (9.5 mm) lead length at $T_A=75^\circ\text{C}$
IFSM	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
IR(AV)	Maximum Full Load Reverse Current, Full Cycle Average	30							μA	0.375" (9.5 mm) lead length at $T_L=75^\circ\text{C}$

1A Standard Rectifiers

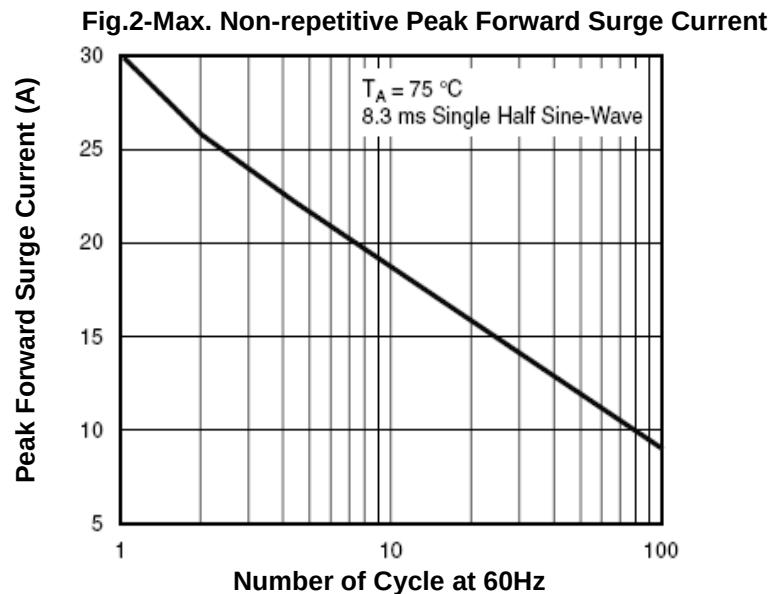
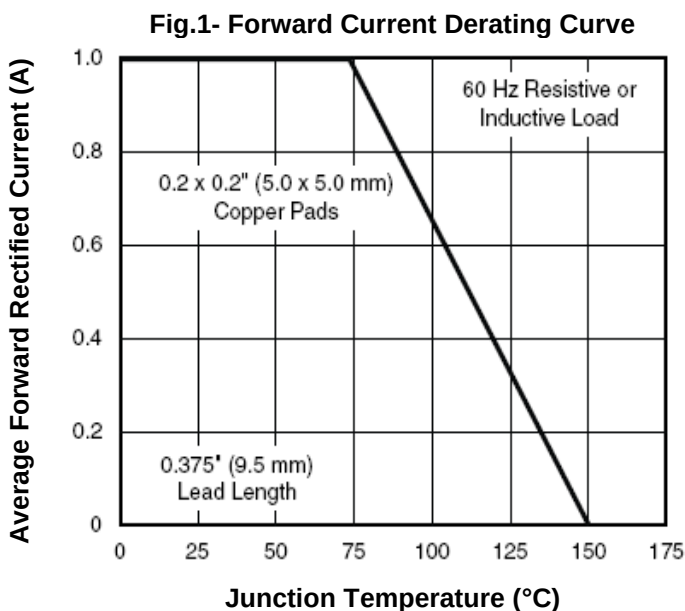
1N4001 - 1N4007

Symbol	Description	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit	Conditions
I ² _t	Rating for Fusing (t<8.3ms)	3.7							A²s	Note 1
V _F	Maximum Instantaneous Forward Voltage	1.1							V	I _F =1.0A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	T _A =25° C
		50								T _A =125° C
C _J	Typical Junction Capacitance	15							pF	V _R =4V, f=1MHz
R _{thJA}	Typical Thermal Resistance	50							°C / W	Note 2
R _{thJL}		25								
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-50 to +150							° C	

Note: 1. For device using on bridge rectifier application.

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

Typical Characteristics Curves



1A Standard Rectifiers

1N4001 - 1N4007

Fig.3-Typical Instantaneous Forward Characteristic

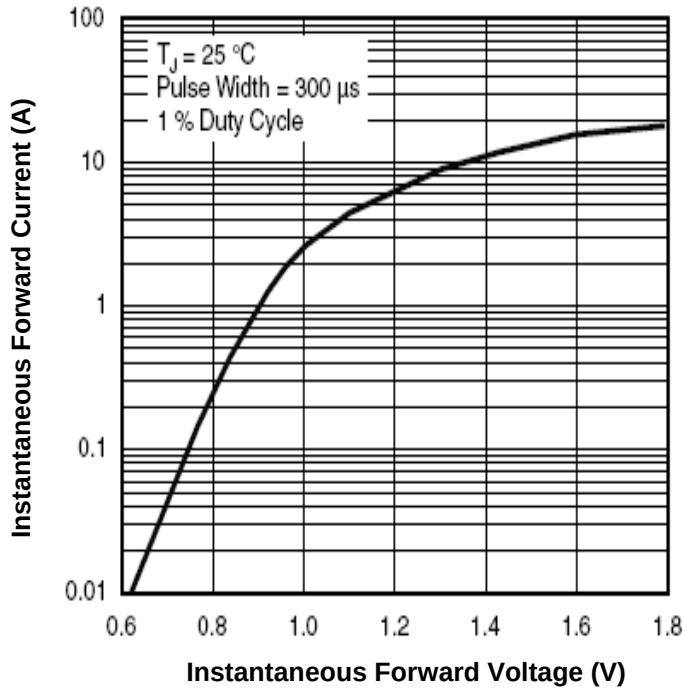


Fig.4-Typical Reverse Characteristics

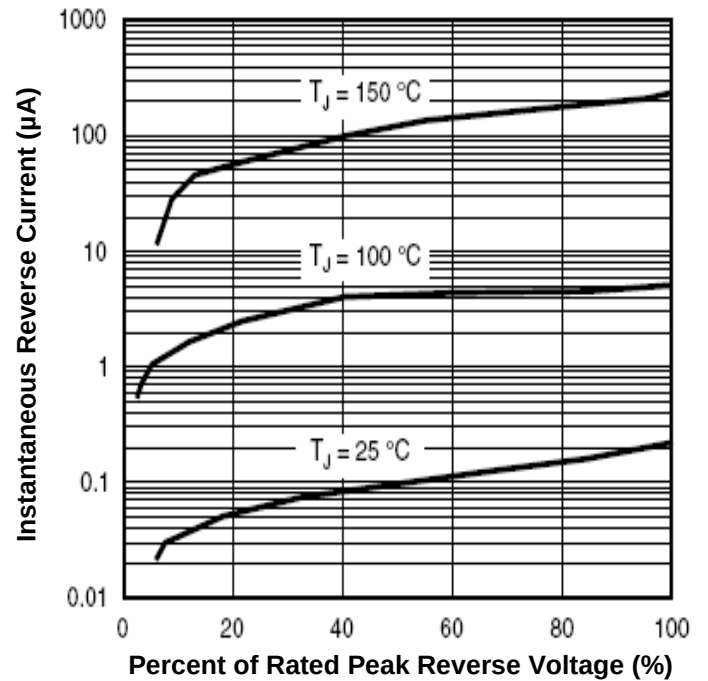
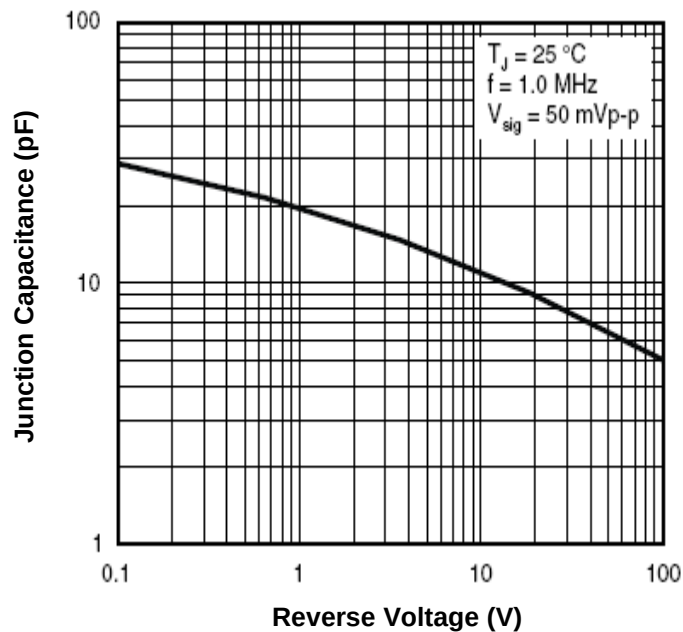
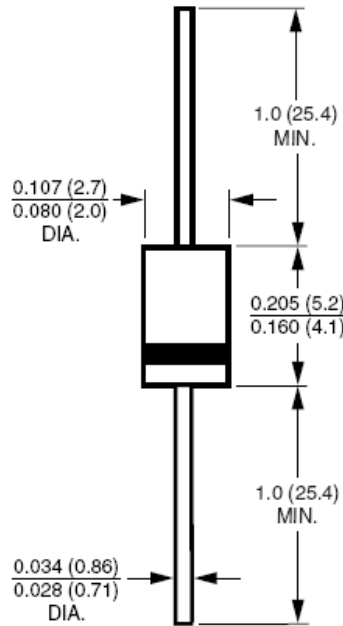


Fig.5-Typical Junction Capacitance



Dimensions in inch (mm)



**DO-204AL
(DO-41)**

Packing Information:

Packing Quantity Information:

Quantity	PCS per	PCS per Carton
Tape & Reel	5,000 / Reel	20,000
Bulk	1,000 / Box	50,000

Carton Size Information:

Item	Carton Size
Tape & Reel	360X350X345 (in mm)
Bulk	475X225X260 (in mm)

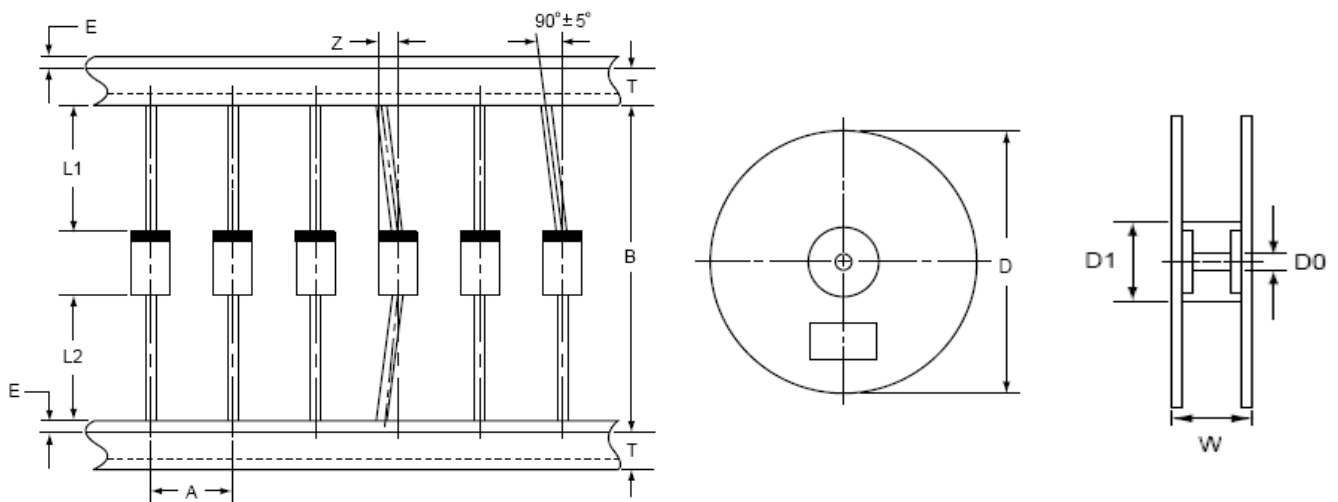
1A Standard Rectifiers

1N4001 - 1N4007

Axial Lead Taping Specifications

Axial lead devices are packed in accordance with EIA standard RS-296-E and specifications given below.

Outline	Component Pitch A	Inner Tape Pitch B	Cumulative Pitch Tolerance
DO-41	5.0mm±0.5mm	52.4mm+1.5mm/-0.4mm	Not to Exceed 1.5mm (0.059") over 6 consecutive components.



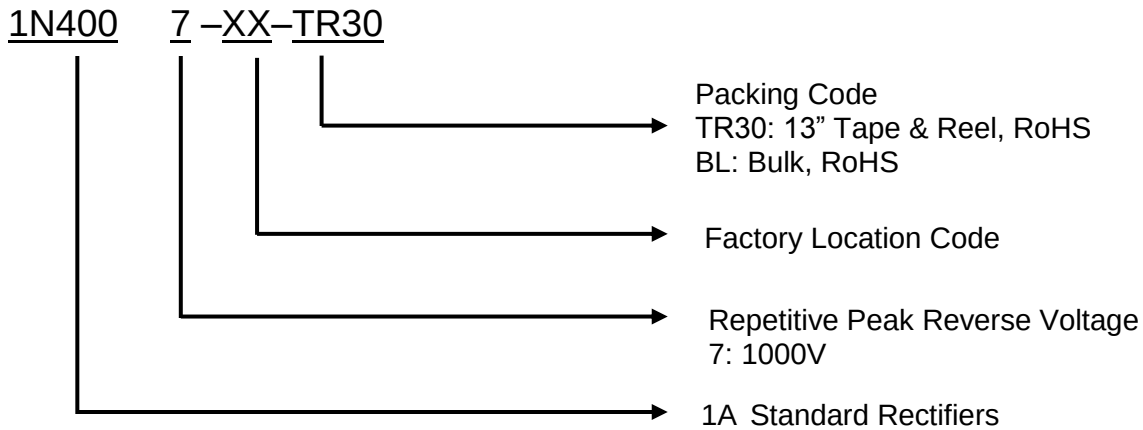
Item	Symbol	Specification (mm)	Specification (inch)
Component alignment	Z	1.2 max.	0.048 max.
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8 max	0.032 max.
Body eccentricity	L1-L2	1.0 max.	0.040 max.
Reel outside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7±5.0	3.375±0.197
Feed hole diameter	D0	30.0±5.0	1.181±0.197
Reel width	W	79.0±1.0	3.110±0.040

Note: Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126")

1A Standard Rectifiers

1N4001 - 1N4007

How to Order



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