

1N4001G THRU 1N4007G

GLASSPASSIVATED JUNCTIONPLASTICRECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * High reliability
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction
- * P/N suffix V means AEC-Q101 qualified
- * P/N suffix V means Halogen-free

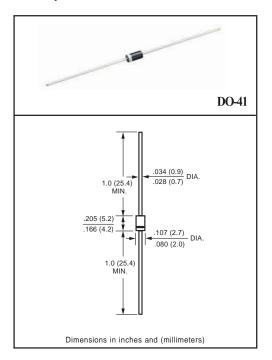
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0						Amps	
ak Forward Surge Current 8.3 ms single half sine-wave perimposed on rated load (JEDEC method) IFSM 30						Amps			
Typical Current Squared Time I ² T 3.74					A ² S				
Typical Junction Capacitance (Note)	CJ	15					pF		
ypical Thermal Resistance RejA 50				·	°C/W				
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175						°C	

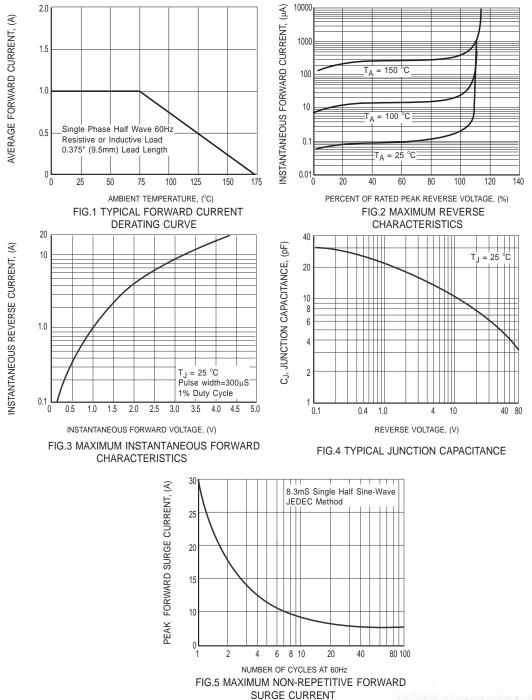
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	1N4001G 1N4002G 1N4003G 1N4004G 1N4005G 1N4006G 1N4007G	UNITS
Maximum Instantaneous Forward Voltage at 1.0	A DC	VF	1.0	Volts
Maximum DC Reverse Current @TA = 25°C			0.2	۸
at Rated DC Blocking Voltage	@Ta= 150°C	lR IR	400	uAmps

NOTES: Measured at 1 MHz and applied reverse voltage of 4.0 volts

2018-01 REV:B

RATING AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)





AXIAL LEAD TAPING SPECIFICATIONS FOR RECTIFIERS

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

COMPNENT OUTLINE	COMPONENT PITCH A	INNER PITC		CUMULATIVE PITCH TOLERANCE	
OUTLINE	± 0.5mm (.020") ± 0.5mm (.020") ± 1.5mm (.059")		IOLERANCE		
R-1	5.0mm	26.0mm		2.0mm/20pitch	
A-405	5.0mm	26.0mm		2.0mm/20pitch	
A-405	5.0mm		52.4mm	2.0mm/20pitch	
DO-41	5.0mm	26.0mm		2.0mm/20pitch	
DO-41	5.0mm		52.4mm	2.0mm/10pitch	
DO-15	5.0mm		52.4mm	2.0mm/10pitch	
R-3	5.0mm		52.4mm	2.0mm/10pitch	
DO-201AD	10.0mm		52.4mm	2.0mm/10pitch	
R-6	10.0mm		52.4mm	2.0mm/10pitch	

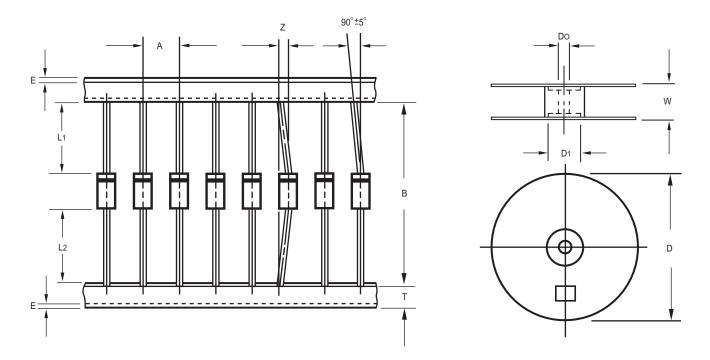


Fig.: Configuration of AXIAL LEAD TAPING

ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Component alignment	Z	1.2 Max.	0.047 Max.
Tape width	Т	6.0 ± 0.4	0.236 ± 0.016
Exposed adhesive	E	0.8 Max.	0.032 Max.
Body eccentricity	IL1-L2I	1.0 Max.	0.039 Max.
Reel outside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7 ± 0.3	3.374 ± 0.012
Feed hole diameter	D0	30.5 ± 0.4	1.201 ± 0.016
Reel width	W	79.0 ± 1.0	3.110 ± 0.039

Notes: 1.Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126").

2.The reel width "W" for 26mm taping is 50.0 ± 1.0 mm (1.97" $\pm~0.040$ ").

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE EA PER BOX INNER BOX SIZE CARTON SIZE (mm) CARTON SIZE (EACH)		EA PER CARTON	GROSS WEIGHT(Kg)		
DO-41	-B	1,000	194*75*21	415*220*255	50,000	16.2

eg(TYPE):1N4007G-B

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-T	5,000	5,000	5.0	52	330	355*350*335	20,000	10.49

eg(TYPE):1N4007G-T

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-41	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	13.0
DO-41	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	12.41

eg(TYPE):1N4007G-F,1N4007G-E



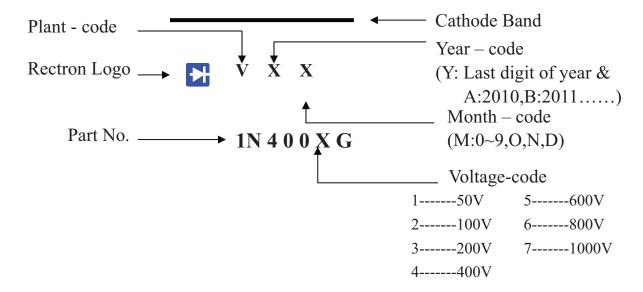


Attachment information about 1N400XG

1. Internal Circuit



2. Marking on the body



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