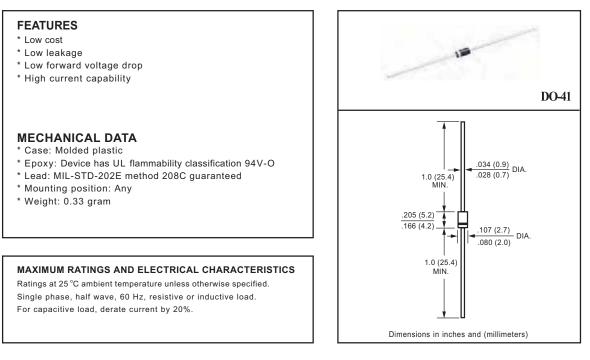


1 N 4008

SILICON RECTIFIER

VOLTAGE RANGE 1200 Volts CURRENT 1.0 Ampere



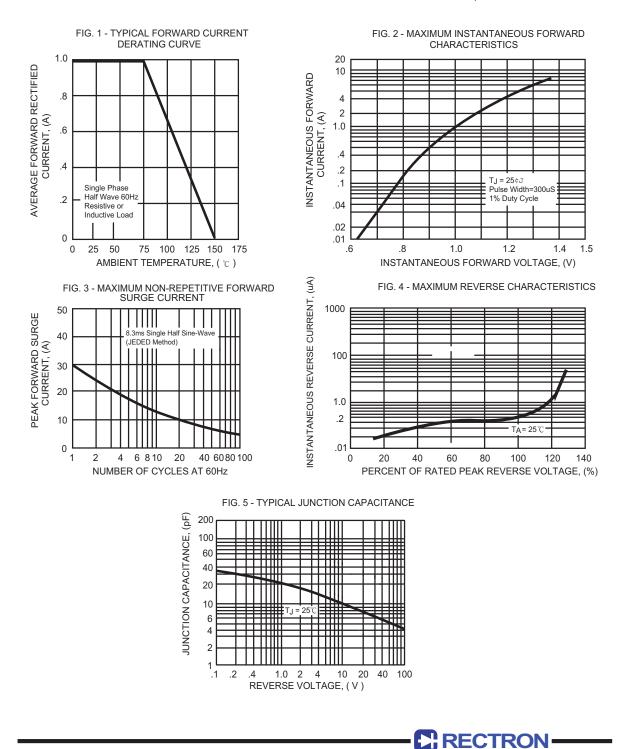
MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1N4008	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	Volts
Maximum RMS Voltage	Vrms	840	Volts
Maximum DC Blocking Voltage	VDC	1200	Volts
Maximum Average Forward Rectified Current at T _A = 75°C	lo	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed 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
Typical Thermal Resistance	RθJA	50	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	° C

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

CHARACTERISTICS		SYMBOL	1N4008	UNITS
Maximum Instantaneous Forward Voltage at 1.0	A DC	VF	1.0	Volts
Maximum DC Reverse Current	@TA = 25°C		0.2	u A mpo
at Rated DC Blocking Voltage @TA = 150°C		la la	200	- uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C		lR	20	uAmps

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

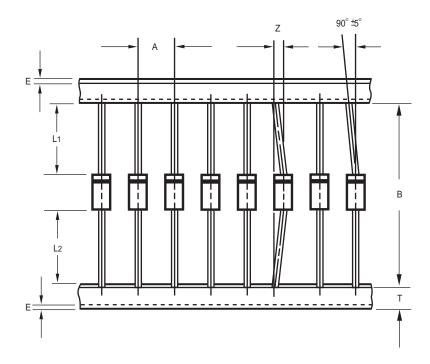


RATING AND CHARACTERISTIC CURVES (1N4008)

AXIAL LEAD TAPING SPECIFICATIONS FOR RECTIFIERS

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

COMPNENT	COMPONENT PITCH A	INNER TAPE PITCH B		CUMULATIVE PITCH
OUTLINE	±0.5mm (.020")	± 0.5mm (.020")	±1.5mm (.059")	TOLERANCE
T-1	5.0mm	26.0mm		2.0mm/20pitch
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



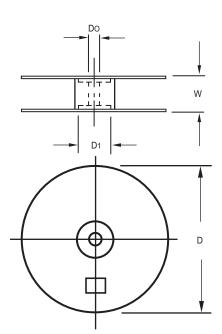


Fig.: Configuration of AXIAL LEAD TAPING

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	Е	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	Do	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" ± 0.040 ").

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

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

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

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



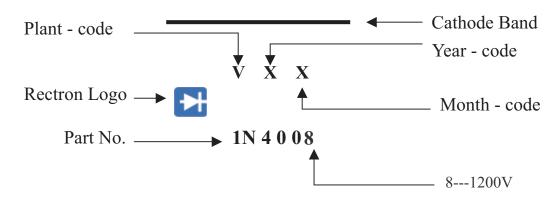


Attachment information about 1N4008

1. Internal Circuit



2. Marking on the body



3. The net weight 330mg / pcs

4. Taping packaging specification

- 4.1All polarized components must be oriented in one direction.
- 4.2For diode, at least one side of the cathode lead tape should be red, and anode lead tape should be white.
- 4.3A minimum 300 mm (12") leader shall be provided at each end of the reel.
- 4.4Staples shall not be used for splicing. Splice length shall be 4.0 inches minimum and shall not be misaligned more than 0.8mm.

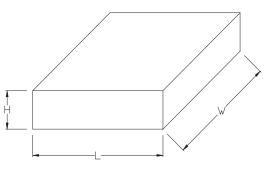


Attachment information about 1N4008

5. Items marked on the reel box and carton

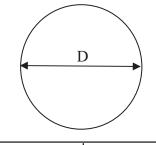
5.1 On the reel (for –T) CUSTOMER TYPE **QUANTITY** LOT NO. Q.A. REMARK **5.2** On the box (for –E & -F) TYPE QUANTITY LOT NO. **Q.A.** 5.3 On the carton **CUSTOMER** TYPE **QUANTITY** LOT NO. REMARK

1. BOX



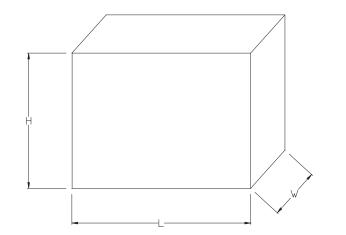
Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-F	255	100	73
-Е	256	94	46

2. REEL



Packing	D		
Code	(mm)		
- T	178		
-W	330		

3. CARTON



Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T	355	350	335
-F	402	270	225
-Е	347	320	220

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