

1N4001GP-1N4007GP

PLASTIC GLASS PASSIVATED RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Characteristic	Value	Unit
Maximum recurrent peak reverse voltage		Volts
1N4001GP	50	
1N4002GP	100	
1N4003GP	200	
1N4004GP	400	
1N4005GP	600	
1N4006GP	800	
1N4007GP	1000	
Maximum RMS voltage		Volts
1N4001GP	35	
1N4002GP	70	
1N4003GP	140	
1N4004GP	280	
1N4005GP	420	
1N4006GP	560	
1N4007GP	700	
Maximum DC blocking voltage		Volts
1N4001GP	50	
1N4002GP	100	
1N4003GP	200	
1N4004GP	400	
1N4005GP	600	
1N4006GP	800	
1N4007GP	1000	
Operating & Storage Temperature	-55 to +150	°C
Maximum thermal resistance, junction to lead :	20	°C/W
Maximum thermal resistance, junction to ambient:	100	°C/W

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Average forward current	Peak forward surge current	Maximum instantaneous forward voltage	Maximum DC reverse current at rated DC blocking voltage		Typical junction capacitance
Part	I _{F(AV)}	I _{FSM}	V _F	I _R T _J = 25°C		Cı
number	T _A = 75°C	8.3ms half sine	I _{FM} = 1.0A, T _J = 25°C ⁽¹⁾			Measured at 1MHz, V _R = 4.0V
	Amps	Amps	Volts	μΑ	μΑ	pF
1N4001GP	1.0	30	1.1	5.0	50	15
1N4002GP	1.0	30	1.1	5.0	50	15
1N4003GP	1.0	30	1.1	5.0	50	15



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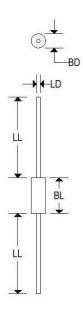
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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Average forward current	Peak forward surge current	Maximum instantaneous forward voltage	Maximum DC reverse current at rated DC blocking voltage		Typical junction capacitance
Part	I _{F(AV)}	I _{FSM}	V _F	I _R		Cı
number	T _A = 75°C	8.3ms half sine	I _{FM} = 1.0A, T _J = 25°C ⁽¹⁾	T _J = 25°C T _J = 125°C		Measured at 1MHz, V _R = 4.0V
	Amps	Amps	Volts	μΑ	μΑ	pF
1N4004GP	1.0	30	1.1	5.0	50	15
1N4005GP	1.0	30	1.1	5.0	50	15
1N4006GP	1.0	30	1.1	5.0	50	15
1N4007GP	1.0	30	1.1	5.0	50	15

MECHANICAL CHARACTERISTICS

Case:	DO-41 Plastic	
Polarity:	Cathode band	
Marking:	Alpha numeric	

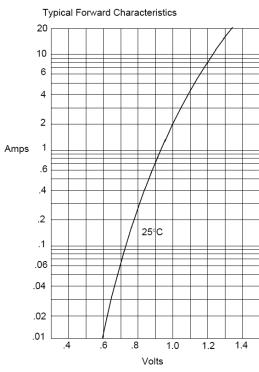


	DO-41				
	Inches		Millimeters		
	Min	Max	Min	Max	
BD		0.107		2.720	
BL	- 6	0.205	-	5 207	
LD	0.028	0.034	0.711	0.864	
LL	1.000	Less	25.400	.5	

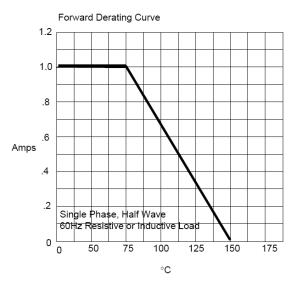


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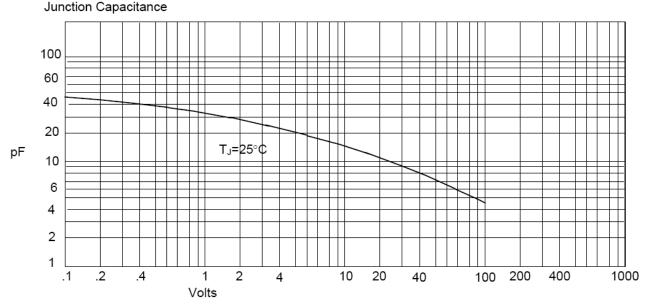
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Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes*versus* Ambient Temperature -°C



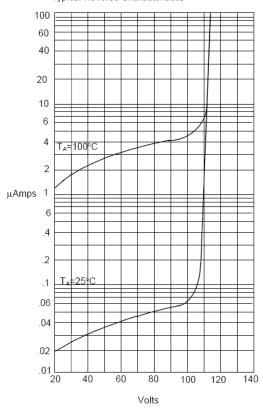
Junction Capacitance - pF*versus* Reverse Voltage - Volts



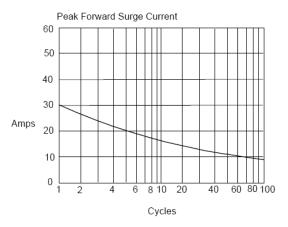
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Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles