

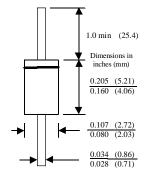
Discrete POWER & Signal Technologies

1N4001GP - 1N4007GP

Features

- Low forward voltage drop.
- High surge current capability.
- High reliability.
- High current capability.





1.0 Ampere Glass Passivated Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
Io	Average Rectified Current .375 " lead length @ T _A = 75°C	1.0	А	
İ _f (surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	30	А	
P_D	Total Device Dissipation Derate above 25°C	3.0 20	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to ambient	50	°C/W	
T _{stg}	Storage Temperature Range	-65 to +175	°C	
TJ	Operating Junction Temperature	-65 to +175	°C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

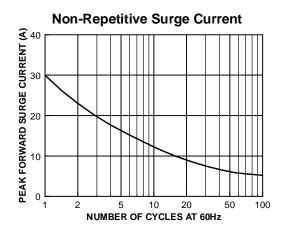
Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

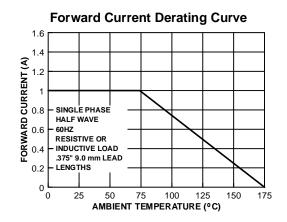
Parameter		Device						Units	
		4001GP	4002GP	4003GP	4004GP	4005GP	4006GP	4007GP	
Peak Repetitive Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
DC Reverse Voltage	(Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Cur	rent								
@ rated V_R $T_A = 25^{\circ}C$					5.0				μΑ
	$T_A = 125^{\circ}C$				50				μΑ
Maximum Forward Voltage @ 1.0 A					1.1				V
Typical Junction Capacitance V _R = 4.0 V, f = 1.0 MHz					8.0				pF

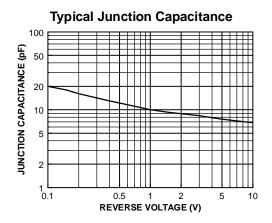
Glass Passivated Rectifiers

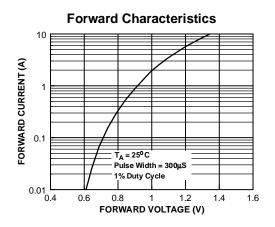
(continued)

Typical Characteristics









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