

1N4001GP - 1N4007GP

Features

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



COLOR BAND DENOTES CATHODE

General Purpose Rectifiers (Glass Passivated)

Absolute Maximum Ratings* $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value							Units
		4001GP	4002GP	4003G	4004GP	4005GP	4006GP	4007GP	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ T _A = 75°C	1.0					A		
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30					A		
T _{stg}	Storage Temperature Range	-65 to +175					°C		
TJ	Operating Junction Temperature			-	65 to +17	75			°C

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

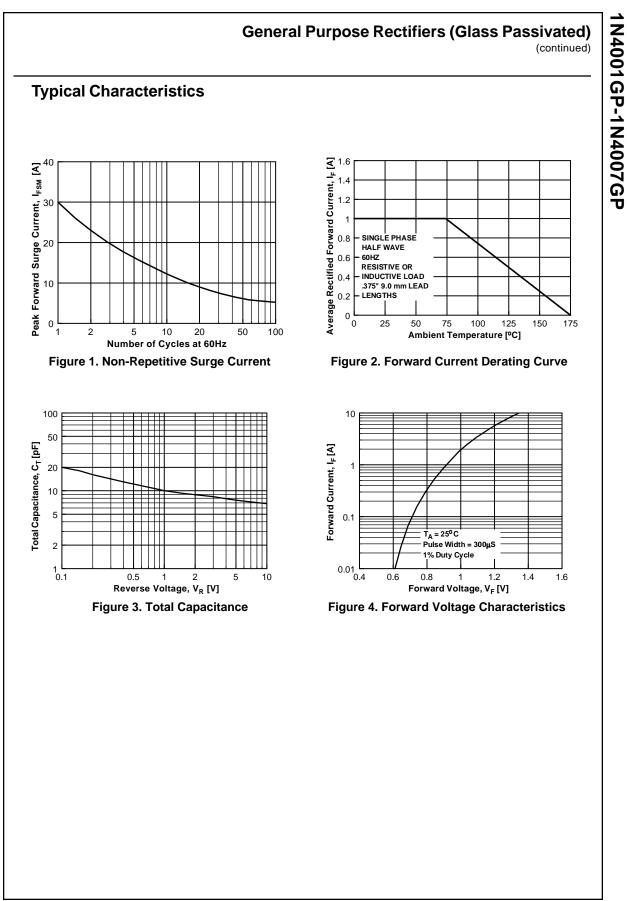
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	3.0	W
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	50	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device							Units
		4001GP	4002GP	4003G	4004GP	4005GP	4006GP	4007GP	1
V _F	Forward Voltage @ 1.0 A				1.1				V
I _R	Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$				5.0 50				μΑ μΑ
C _T	Total Capacitance $V_R = 4.0 V, f = 1.0 MHz$				8.0				pF

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