



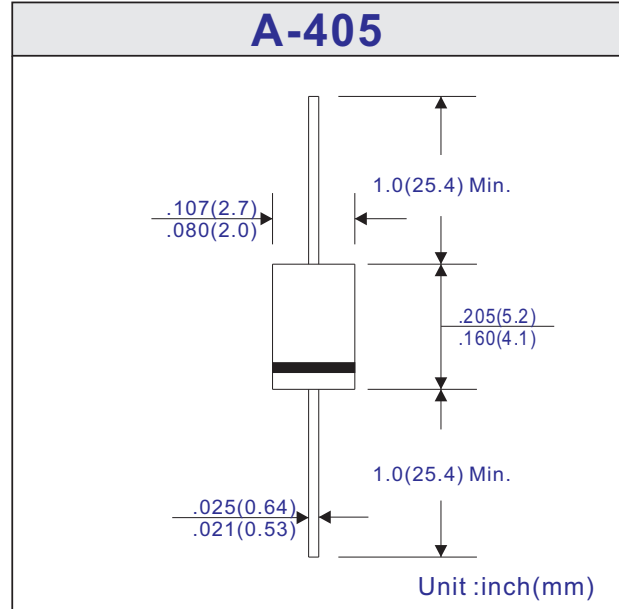
**1N4001GS thru
 1N4007GS**

**1.0A Glass Passivated Leaded
 Standard Rectifiers - 50V-1000V**



FEATURES
<ul style="list-style-type: none"> • Low drop down voltage • High current capability • Low reverse leakage • High surge current capability • Glass passivated chip junction • Lead-free parts for green partner, meet RoHS requirements

MECHANICAL DATA
<ul style="list-style-type: none"> • Case: A-405 molded plastic • Epoxy: UL94-V0 rated flame retardant • Terminals: Solderable per MIL-STD-750 Method 2026 • Polarity: Color band denotes cathode end • Mounting Position: Any • Weight: 0.008 ounces, 0.23 grams



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS
 Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	1N4001GS	1N4002GS	1N4003GS	1N4004GS	1N4005GS	1N4006GS	1N4007GS	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 See Figure 1	I(AV)	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method) T _L =110°C	IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	5.0 50.0							μA
Typical Reverse Recovery Time (Note 1)	Trr	1.8							μS
Typical Junction Capacitance (Note 2)	CJ	10							pF
Typical Thermal Resistance (Note 3)	RθJA	45							°C/W
Operating Junction Temperature Range	TJ	-55 ~ +150							°C
Storage Temperature Range	TSTG	-55 ~ +150							°C

Note 1. Reverse recovery time test condition, I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
 3. Thermal resistance from junction to ambient

