

1N5420

SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 600V

CURRENT: 4.0A

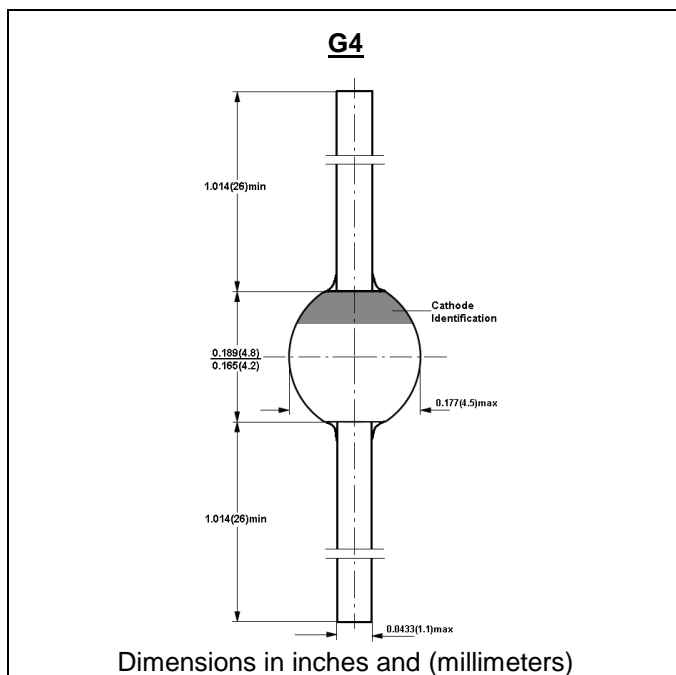


FEATURE

Glass passivated
Hermetically sealed package
Low reverse current
Soft recovery characteristics

MECHANICAL DATA

Case: G-4 sintered glass case
Terminal: Plated axial leads solderable per J-STD-002
Polarity: color band denotes cathode end
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	1N5420	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Reverse Breakdown Voltage $I_R=50\mu A$	V_{BR}	660	V
Maximum Average Forward Rectified Current 3/8"lead length at $T_a=55^\circ C$	I_{FAV}	4.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120	A
Maximum Forward Voltage at Forward Current 9.0A	V_F	1.5	V
Maximum DC Reverse Current $T_a = 25^\circ C$ at rated DC blocking voltage $T_a = 100^\circ C$	I_R	1.0 20.0	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	250	nS
Typical Junction Capacitance (Note 2)	C_j	50.0	pF
Typical Thermal Resistance (Note 3)	$R_{th(ja)}$	20.0	$^\circ C/W$
Storage and Operating Junction Temperature	T_{stg}, T_j	-65 to +175	$^\circ C$

Note:

- Reverse Recovery Condition $I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1N5420

