

Features

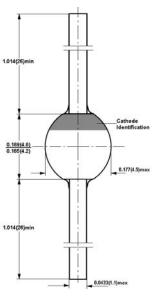
- Glass passivated
- Hermetically sealed package
- Low reverse current
- Soft recovery characteristics

Mechanical Data

- Case: G-4 sintered glass case
- Terminal: Plated axial leads solderable per JSTD-002
- Polarity: Color band denotes cathode

Marking

• 1N5420



Dimensions in inches and (millimeters)

Package: G4

Absolute Maximum Ratings and Electrical Characteristics

(single-phase, half-wave, 60HZ, $T_A=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
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 =5	0μA V _{BR}	660	V
Maximum Average Forward Rectified Current 3/8"lead Length at Ta=55 $^\circ\! \mathbb C$	I _{FAV}	4.0	А
Peak Forward Surge Current 8.3ms Single Half Sine Superimposed on Rated Load	-wave I _{FSM}	120	A
Maximum Forward Voltage at Forward Current 9.0A	V _F	1.5	V
Maximum DC Reverse CurrentTa =at Rated DC Blocking VoltageTa =1	R	1.0 20.0	μΑ
Maximum Reverse Recovery Time (No	te 1) T _{rr}	250	nS
Typical Junction Capacitance (No	ote 2) C _j	50.0	pF
Typical Thermal Resistance (No	ote 3) R _{th(ja)}	20.0	°C/W
Storage and Operating Junction Temperature	T _{stg,} T _j	-65 to +175	°C

Note:

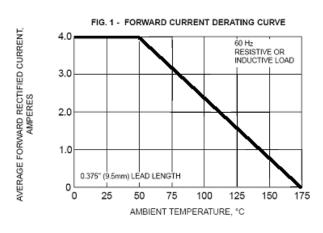
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

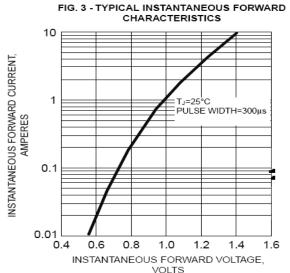
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

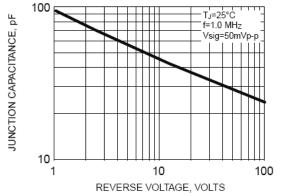


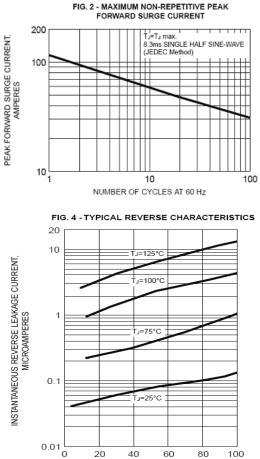
Typical Electrical Characteristic Curves











20 40 60 80 1 PERCENT OF RATED PEAK REVERSE VOLTAGE. %