

<u>SN1P</u>

Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 1300V Forward Current 1A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief, ideal for automated placement
- · Glass passivated chip junction
- High temperature soldering: 250°C/10 seconds at terminals

Mechanical Data

- Case: JEDEC DO-214AC (SMA) molded plastic over glass
 passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounce, 0.064 gram





Package: DO-214AC (SMA)





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

(T_A=25°C unless otherwise specified)

Parameter	Symbols	SN1P	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1300	v
Maximum RMS Voltage	V _{RMS}	910	v
Maximum DC Blocking Voltage	V _{DC}	1300	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0	A
Peak Forward Surge Current (8.3 ms single half sine- wave superimposed on rated load) @ T _L =110°C	I _{FSM}	30.0	A
Maximum Instantaneous Forward Voltage @1A	V _F	1.10	v
Maximum DC Reverse Current at @T _A =25°C	L	5.0	
rated DC Blocking Voltage @T _A =125°C	н	50	uA
Typical Reverse Recovery Time I _F =0.5A,I _R =1.0A I _{rr} =0.25A	t _{rr}	1.0	us
Typical Junction Capacitance @4.0 V, 1 MHz	C」	12	pF
Typical Thermal Resistance ¹⁾	R _{eja}	85	• °C/W
	R _{eJL}	30	
Operating Junction Temperature	Tj	-55 to +150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

Notes: 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas



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Ratings and Characteristic Curves





Fig. 4 – Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)





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