

Features

- Ideal for printed circuit board
- Low forward voltage
- Low leakage current
- Ultrafast reverse recovery time
- High forward surge capability
- High temperature soldering: 260 ℃/10 seconds at terminals



DO-201AD(DO-27)

Mechanical Date

- **Case:**DO-201AD
- Polarity: Coulor band denotes cathode end
- Mounting position: Any
- Terminals: Axial leads, solderable per MIL-STD-202,method 208 guranteed

Major Ratings and Characteristics

I _{F(AV)}	3.0A			
V _{RRM}	20V to 40V			
I _{FSM}	80A			
V _F	0.475V,0.5V.0.525V			
T _j max.	125℃			

Maximum Ratings & Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase ,half wave, 60Hz,resistive or inductive load For capacitive load, derate current by 20%.

Items	Symbol	1N5820	1N5821	1N5822	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	V
Maximum average forward rectified current at $T_A {=} 50^\circ\!\mathrm{C}$	I _{F(AV)}		3.0		А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	80			A
Thermal resistance from junction to ambient	Reja	40			°C/W
Thermal resistance from junction to lead	Rejl	10			°C/W
Operating junction temperature range	TJ	-55 to +125		°C	
Storage temperature range	T _{STG}	–55 to +125		°C	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	1N5820	1N5821	1N5822	UNIT
Instantaneous forward	I _F =3.0 A		V _F	0.475	0.5	0.525	V
Reverse current	\/ - \/	T _A =25℃	I	1.0			mA
	VRM VRRM	T _A =125℃	١R	10			



1N5820~1N5822 Schottky Rectifier

Rating and Characteristic Curves (T_A=25 °C unless otherwise noted)



.375(9.50) .335(8.50) 1.0(25.4) MIN .220(5.60) .197(5.00) .048(1.20)

DO-201AD

Uint: in inches (millimeters)