

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * Low Forward Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalance.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Coduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

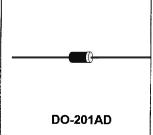
Characteristic	Symbol	1N5820	1N5821	1N5822	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	٧
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectifier Forward Current	lo	3.0		Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	I _{FSM}	80		Α	
Operating and Storage Junction Temperature Range	T _J , T _{stg}	- 65 to + 125			°C

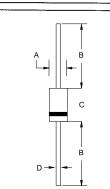
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	1N5820	1N5821	1N5822	Unit
Maximum Instantaneous Forward Voltage (I_F =3.0 Amp) (I_F =9.0 Amp)	V _F	0.475 0.850	0.500 0.900	0.525 0.950	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 125$ °C)	I _R	0.5 20		mA	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	220		pF	

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 20-40 VOLTS





DIM	MILLMETERS		
	MIN	MAX	
. A	5.00	5.60	
В	25.40		
С	8.50	9.50	
D	1.20	1.30	

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band