A MOSPEC

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 Cnduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

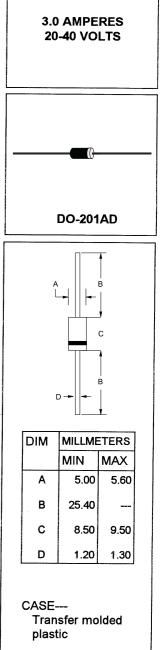
Characteristic	Symbol	1N5820	1N5821	1N5822	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{rrm} V _{rwm} V _r	20	30	40	v
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectifier Forward Current	۱ _o	3.0			А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	I _{FSM}	80		A	
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 = 100 °C)	l _R		2.0 20		mA
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		220		рF

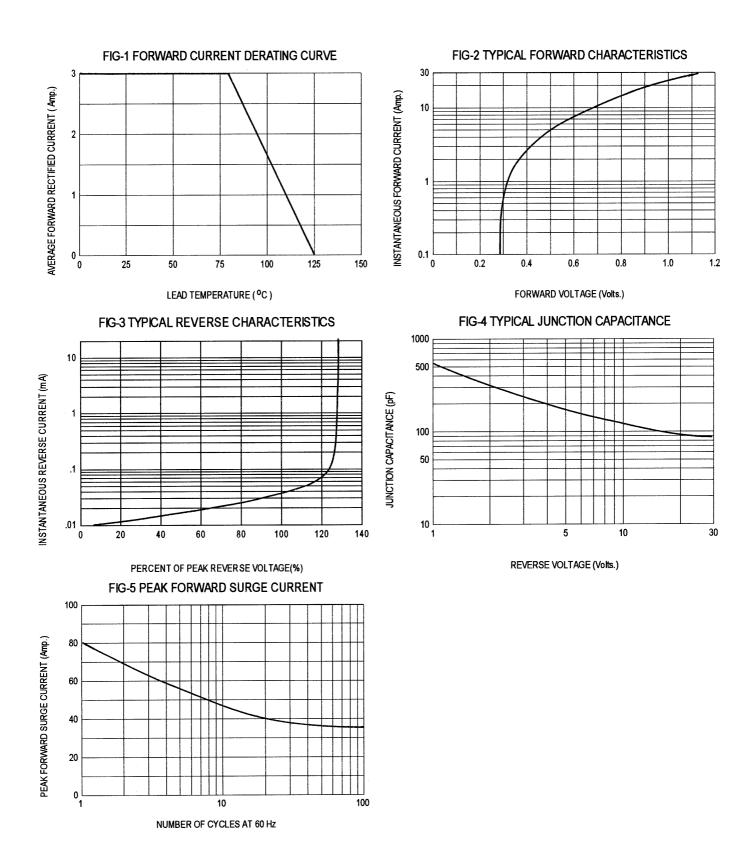
1N5820 thru 1N5822

SCHOTTKY BARRIER RECTIFIERS

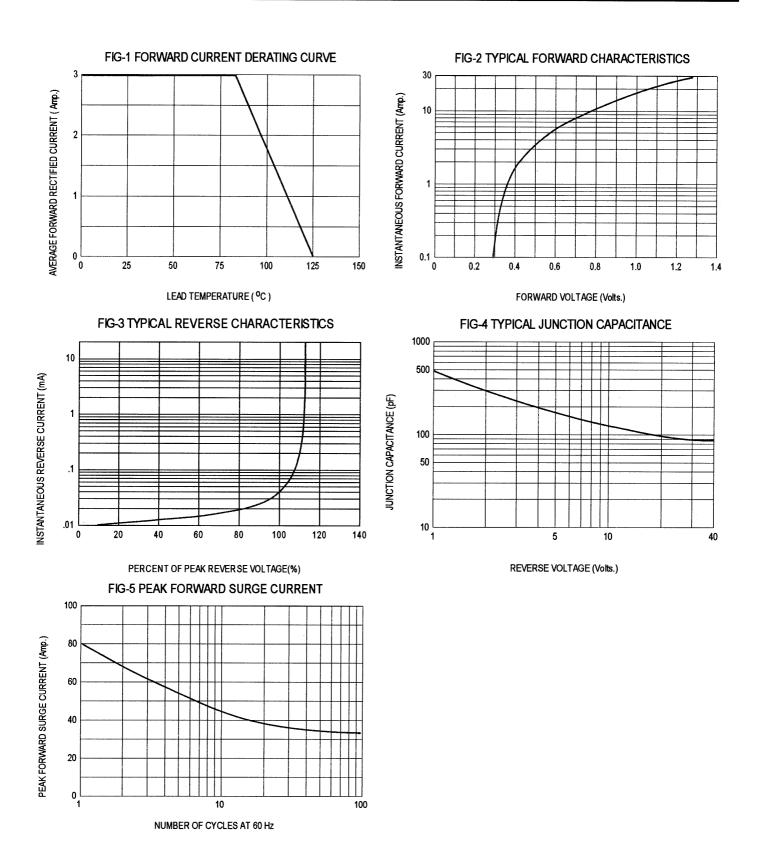


POLARITY---

Cathode indicated polarity band



1N5821, 1N5822



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Datasheets for electronic components.