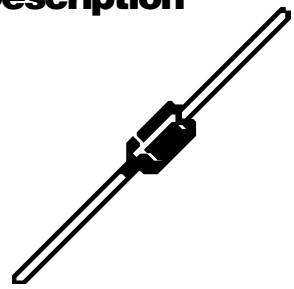
Data Sheet

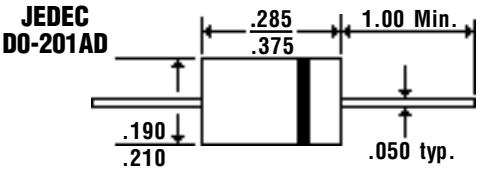
3.0 Amp BARRIER SCHOTTKY RECTIFIERS

1N5820, 21 & 22 Series

Description



Mechanical Dimensions

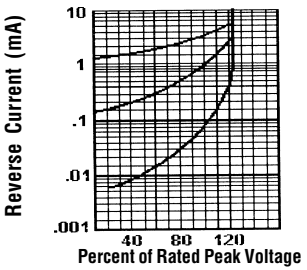


Features

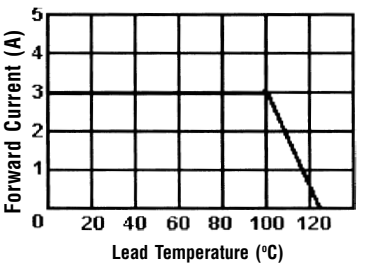
- EXTREMELY LOW V_F
- LOW POWER LOSS — HIGH EFFICIENCY
- LOW STORED CHARGE; MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0

	1N5820, 21 & 22 Series			Units
Maximum Ratings	**1N5820**	**1N5821**	**1N5822**	
Peak Repetitive Reverse Voltage...V_{RRM}	20	30	40	Volts
Working Peak Reverse Voltage...V_{RWM}	20	30	40	Volts
DC Blocking Voltage...V_{DC}	20	30	40	Volts
RMS Reverse Voltage...$V_{R(rms)}$	14	21	28	Volts
Average Forward Rectified Current...$I_{F(av)}$ @ T_A = 55°C	3.0			Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} @ Rated Load Conditions, ½ Wave, 60 Hz, T_L = 75°C	80			Amps
Operating & Storage Temperature Range...T_J, T_{STRG}	-65 to 125			°C
Electrical Characteristics				
Maximum Forward Voltage...V_F @ I_F = 3.0 Amps	.475	.500	.525	Volts
Maximum DC Reverse Current...I_R @ Rated DC Blocking Voltage T_L = 25°C	2.0			mAmps
T_L = 100°C	10			mAmps
Typical Junction Capacitance...C_J	250			pF

Typical Reverse Characteristics



Forward Current Derating Curve



Typical Junction Capacitance