

High-reliability discrete products and engineering services since 1977

1N5820-1N5822

SCHOTTKY RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Characteristics	Symbol	Value
Storage temperature range	T _{STG}	-55 to + 150°C
Operating junction temperature range	Tı	-55 to +150°C
Maximum thermal resistance	R _{0JL} , L = 3/8"	52°C/W Junction to lead
Maximum thermal resistance	$R_{\theta JL}$, $L=0$	28°C/W Junction to case
Working peak reverse voltage	V _{RWM}	
1N5820		20V
1N5821		30V
1N5822		40V
Repetitive peak reverse voltage	V _{RRM}	
1N5820		20V
1N5821		30V
1N5822		40V
Weight		0.032 ounces (1.0 gram) typical

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameters	Symbol	Test Conditions	1N5820	1N5821	1N5822
Average forward current	I _{F(AV)}		3A	3A	3A
Case temperature	T _C	R _{OJL} = 28°C/W, L = 0"	115°C	116°C	117°C
Lead temperature	TL	R _{OJL} = 52°C/W, L = 3/8"	85°C	86°C	88°C
Maximum surge current	I _{FSM}	8.3 ms, half sine, T _J = 150°C	150A	150A	150A
Maximum peak forward voltage	V _{FM}	I _{FM} = 1A, T _J = 25°C*	.36V	.37V	.38V
Maximum peak forward voltage	V _{FM}	I _{FM} = 3A, T _J = 25°C*	.46V	.48V	.50V
Maximum peak forward voltage	V _{FM}	I _{FM} = 9.4A, T _J = 25°C*	.65V	.67V	.70V
Maximum peak reverse voltage	I _{RM}	V _{RRM} , T _J = 25°C	1.5mA	1.5mA	1.5mA
Typical junction capacitance	Cı	V _R = 5.0V, T _J = 25°C	265pF	265pF	265pF

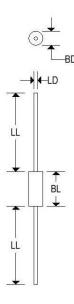
^{*}Pulse test: Pulse width 300μsec, duty cycle 2%.



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MECHANICAL CHARACTERISTICS

Case:	DO-201A
Marking: Body painted, alpha-numeric	
Polarity:	Cathode band



	DO-201A					
	Inches		Millimeters			
	Min	Max	Min	Max		
BD	0.190	0.260	4.826	6.604		
BL	0.285	0.375	7240	9.530		
LD	0.048	0.052	1219	1.321		
LL	1.000	-	25.400	H		

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