

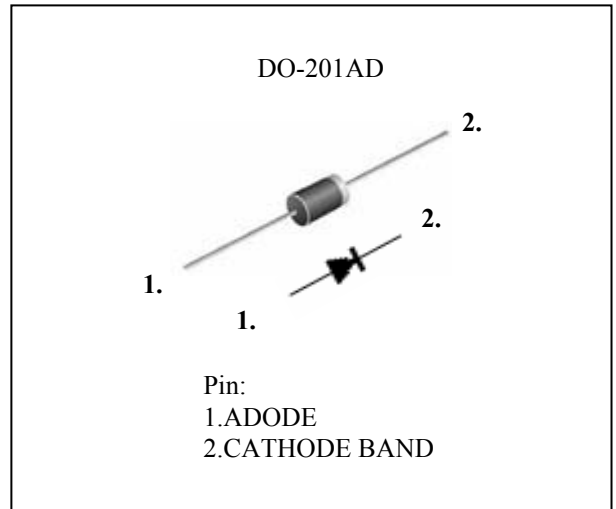
3.0 AMP. Schottky Barrier Rectifier

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for overvoltage protection

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
High temperature soldering guaranteed:
250°C/10 seconds 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.04 oz., 1.12 g
- Packaging codes/options:
1/Bulk - 1.5K per container, 15K per box
4/1.4K per 13" reel, 5.6K per box
23/1K per ammo mag., 9K per box



ORDERING INFORMATION

Device	Operating Temperature	Package
1N582xCE	-20°C ~ +85°C	DO-201AD

Note: x is the index if Voltage Range

MAXIMUM RATINGS AND THERMAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

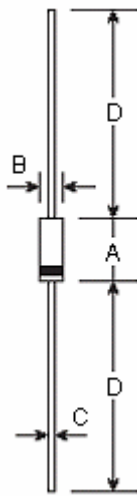
Parameter	Symbol	1N5820	1N5821	1N5822	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	V
Maximum DC blocking voltage	V _{DC}	20	30	40	V
Non-repetitive peak reverse voltage	V _{RSM}	24	36	48	V
Maximum average forward rectified current 0.375"(9.5mm)lead length at T _L =95°C	I _{F(AV)}	3.0			A
Peak forward surge current 8.3ms single Half sine-wave superimposed on rated load (Jedec Method)at T _L =75°C	I _{FSM}	80			A
Maximum instantaneous forward voltage at 3.0A ⁽¹⁾	V _F	0.475	0.500	0.525	V
Maximum average reverse current at rated T _A =25°C DC blocking voltage ⁽¹⁾	I _R	2.0 20			mA
Typical thermal resistance ⁽²⁾	R _{θJA} R _{θJL}	40 10			°C/W
Storage temperature range	T _J ,T _{STG}	-65°C ~ +125°C			°C

*JEDEC registered values

- Notes: 1.Pulse test:300us pulse width, 1% duty cycle
2.Thermal resistance from junction to lead vertical P.C.B. mounted, 0.500" (12.7mm) lead length with 2.5 x 2.5"(63.5 x 63.5mm) copper pad

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DO-201AD Unit: mm



DO-201AD DIMENSION				
DIM	mm		INCHES	
	MIN	MAX	MIN	MAX
A	7.200	9.500	0.285	0.375
B	4.800	5.300	0.188	0.210
C	1.200	1.300	0.048	0.052
D	25.400	-	1.000	-