

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Low Forward Voltage Drop And High Current Capability
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Maximum Thermal Resistance: 28°C/W Junction to Ambient

	MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
	1N5820	1N5820	20V	14V	20V
ĺ	1N5821	1N5821	30V	21V	30V
	1N5822	1N5822	40V	28V	40V

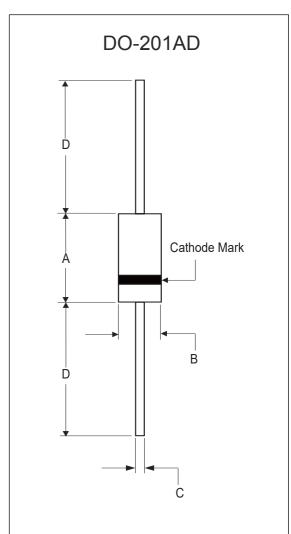
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _A =85°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage 1N5820 1N5821 1N5822	V _F	0.475V 0.500V 0.525V	I _{FM} =3.0A; T _J =25°C (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C; T _J =100°C
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V _R =4.0V

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

2. Pulse test: Pulse width 300 µsec, Duty cycle 1%

3 Amp Schottky Barrier Rectifier 20 to 40 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.287	0.374	7.30	9.50			
В	0.189	0.208	4.80	5.30			
С	0.048	0.052	1.20	1.30			
D	1.000		25.40				



Curve Characteristics

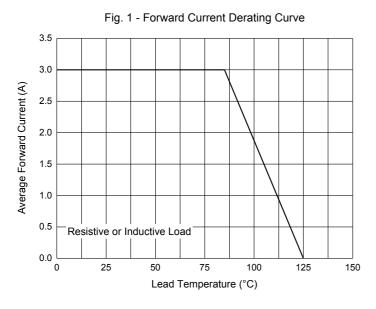
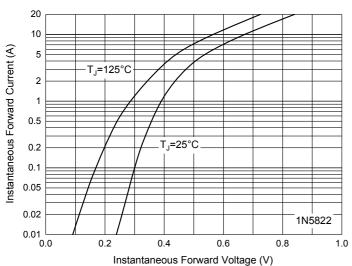


Fig. 3 - Typical Instantaneous Forward Characteristics



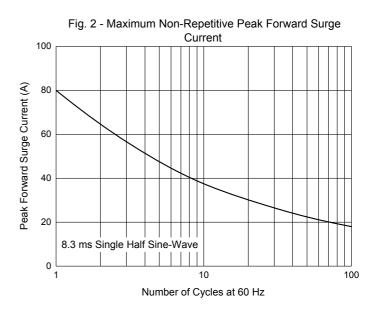
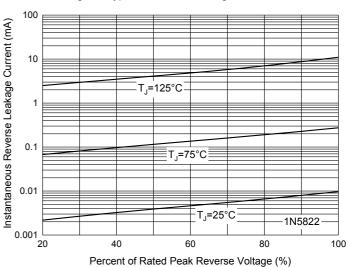


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel		
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box		
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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