



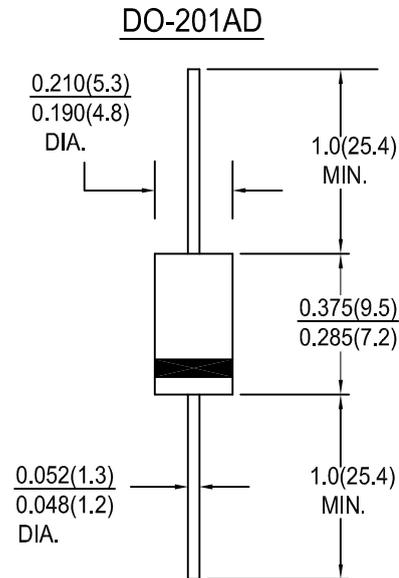
**SCHOTTKY BARRIER RECTIFIERS**

**FEATURES:**

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application

**MECHANICAL DATA**

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals : Axial leads, solderable per MIL-STD-202 Method 208  
 Polarity : Color band on body denotes cathode end  
 Mounting Position : Any  
 Weight : 1.12 grams, 0.040 ounce



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

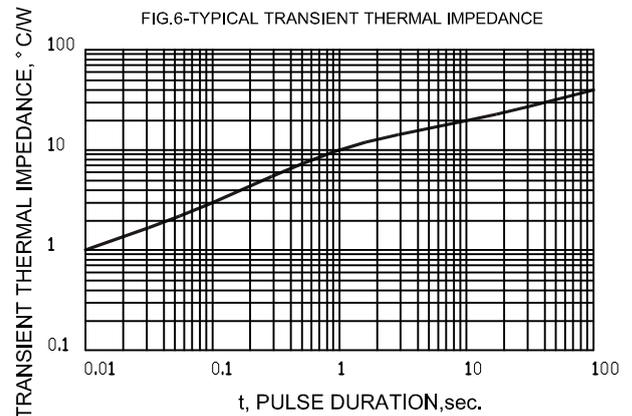
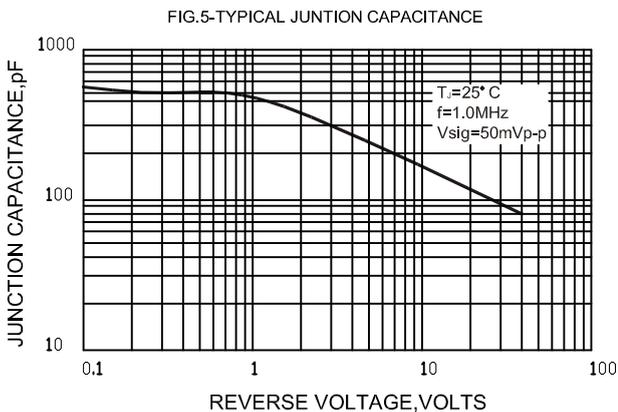
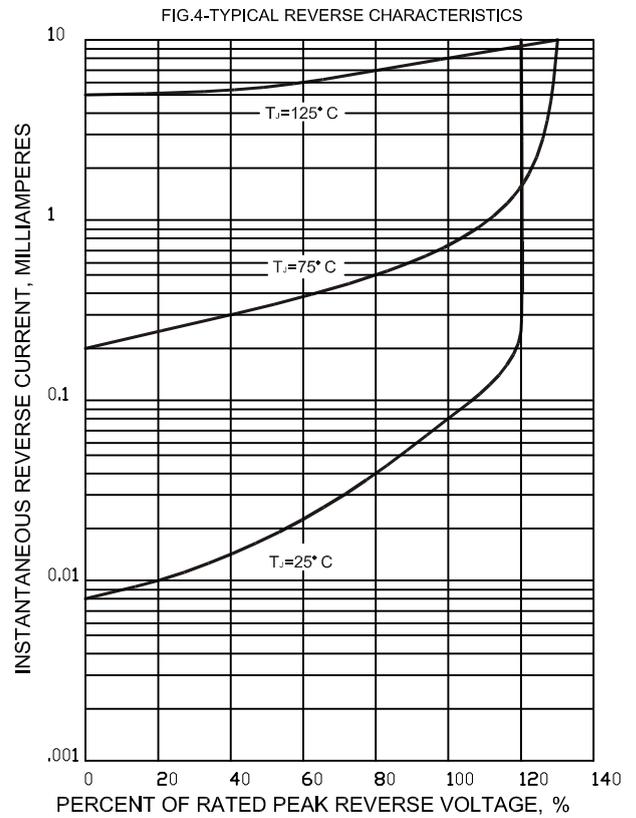
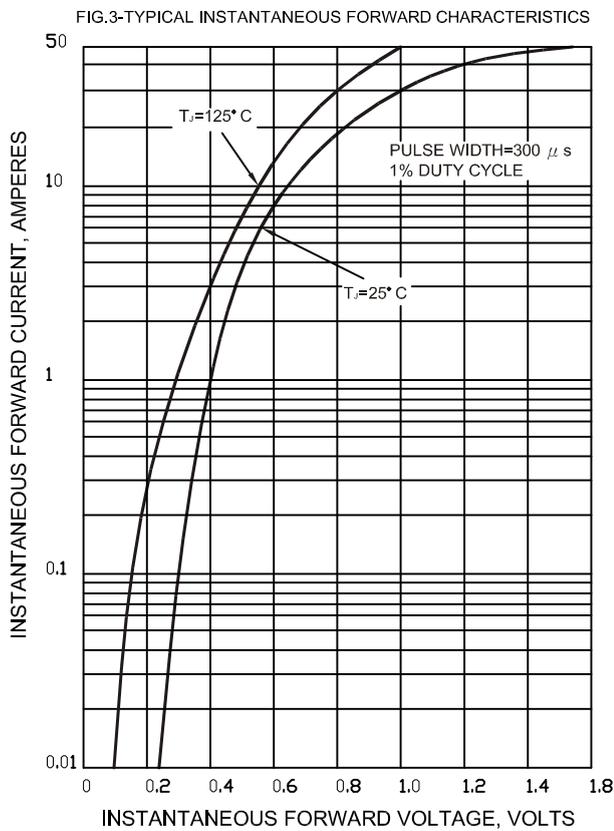
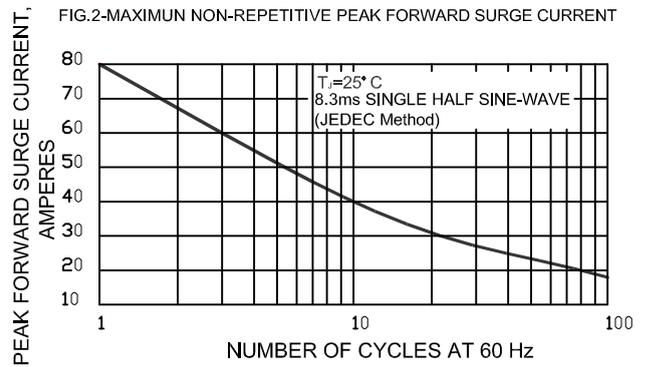
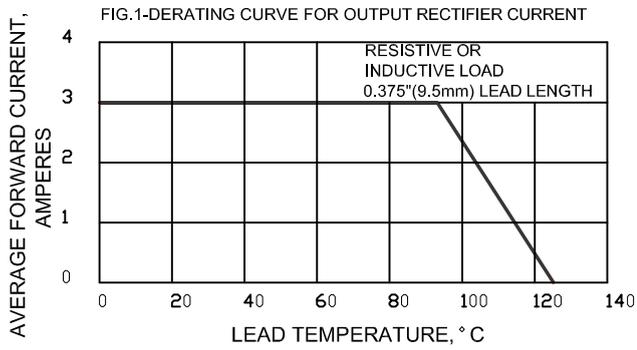
Rating at 25° C ambient temp. unless otherwise specified.  
 Single phase, half sine wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20 %.

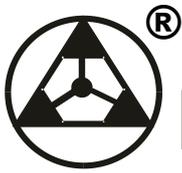
Characteristic	Symbol	1N5820	1N5821	1N5822	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	Volts
Maximum RMS voltage	VRMS	14	21	28	Volts
Maximum DC blocking voltage	VDC	20	30	40	Volts
Maximum average forward rectified current at TL=95° C	I(AV)	3.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	80.0			Amps
Maximum instantaneous forward voltage drop at 3.0 A (NOTE 1)	VF	0.50	0.55	0.55	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	IR	2.0 20.0			mA
Typical thermal resistance	Rth-JA	40.0			°C/W
	Rth-JL	10.0			
Operating junction ,and storage temperature range	Tj,Tstg	-65 to +125			°C

NOTE :  
 1.Pulse test: 300 uspulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES





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