
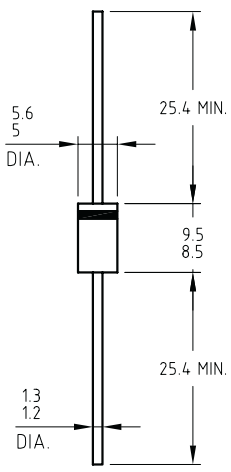


3 Amp. Schottky Barrier Rectifiers

 RoHS COMPLIANCE	DO-201AD (Plastic)	Voltage 20 V to 40 V	Current 3.0 A
		<ul style="list-style-type: none"> • Low power loss, high efficiency. • High current capability, low VF. • High reliability. • High surge current capability. • Epitaxial construction. • Guard-ring for transient protection. • For use in low voltage, high frequency inverter, free wheeling, and polarity protection application. 	
 <p style="text-align: center;">Dimensions in mm.</p>		MECHANICAL DATA <ul style="list-style-type: none"> • Cases: DO-201AD molded plastic • Epoxy: UL 94V-0 rate flame retardant • Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed • Polarity: Color band denotes cathode end • High temperature soldering guaranteed: 260 °C/10 seconds/9.5 mm lead lengths at 5 lbs., (2.3 Kg) tension • Weight: 1.10 g. 	

Maximum Ratings and Electrical Characteristics at 25 °C

		1N5820	1N5821	1N5822
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40
V_{RMS}	Maximum RMS Voltage (V)	14	21	28
V_{DC}	Maximum DC Blocking Voltage (V)	20	30	40
$I_{F(AV)}$	Maximum Average Forward Rectified Current 9.5 mm Lead Length @ $T_L = 90\text{ °C}$ (See graphic)	3.0 A		
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	80 A		
C_j	Typical Junction Capacitance (Note 2)	200 pF		
T_j	Operating Temperature Range	-65 to +125 °C		
T_{stg}	Storage Temperature Range	-65 to +125 °C		

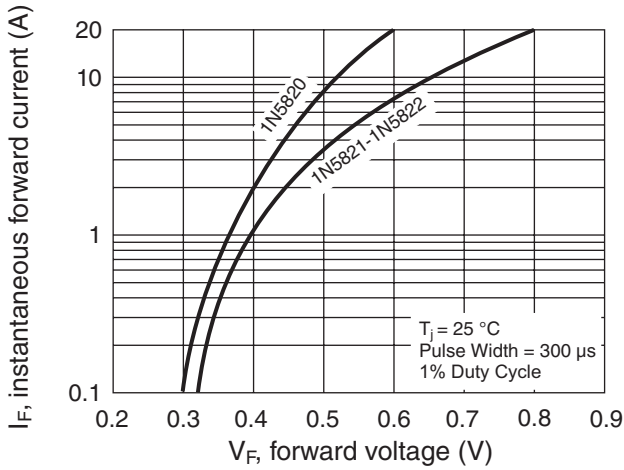
Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage $I_F = 3.0\text{ A}$	0.475 V	0.500 V	0.525 V
V_F	Maximum Instantaneous Forward Voltage $I_F = 9.0\text{ A}$	0.850 V	0.900 V	0.950 V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25\text{ °C}$: 0.5 mA $T_a = 125\text{ °C}$: 10 mA		
$R_{th(j-a)}$	Typical Thermal Resistance (Note 1)	40 °C/W		

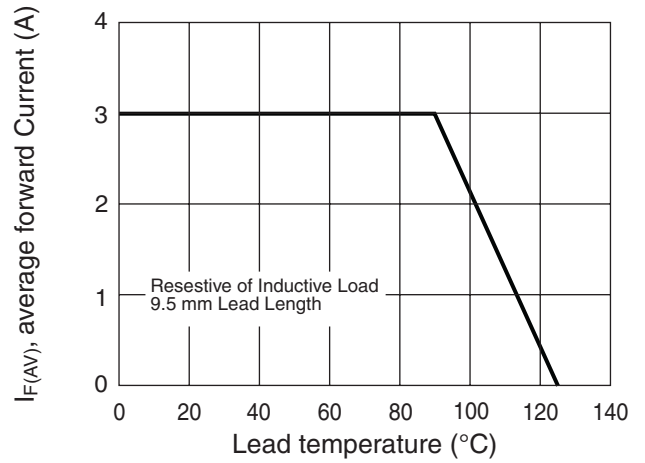
NOTES: 1. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Rating And Characteristic Curves

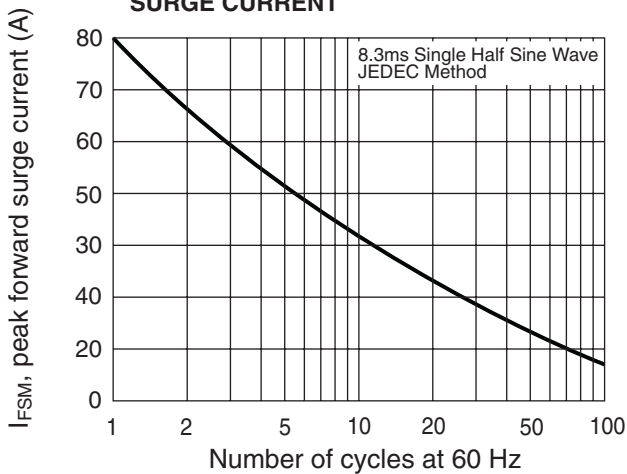
TYPICAL FORWARD CHARACTERISTIC



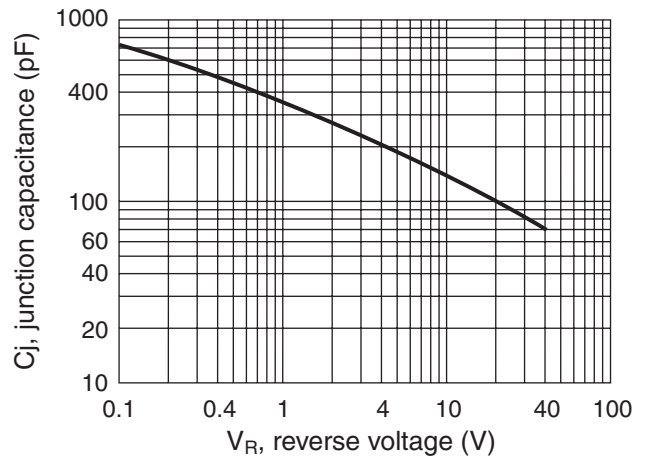
MAXIMUM FORWARD CURRENT DERATING CURVE



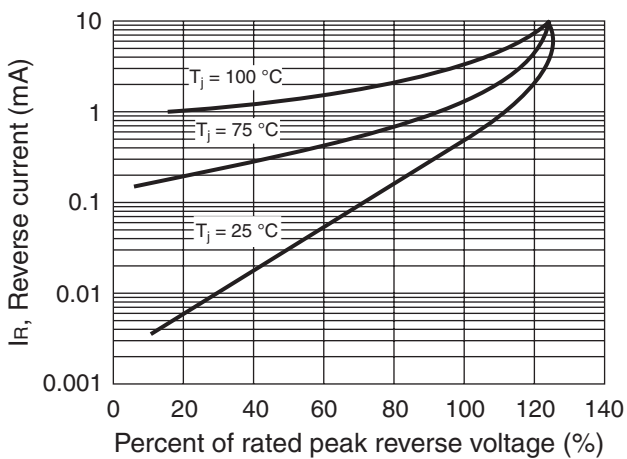
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC

