

Axial Lead Schottky Power Rectifiers

 Lead(Pb)-Free

Features:

- *Low Forward Voltage
- *Low Switching Noise
- *High Surge Capacity
- *Guarantee Reverse Avalanche
- *Guard-ring for Stress Protection
- *Low Power Loss & High Efficiency
- *125°C Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction

Mechanical Data:

- *Case: JEDEC DO-201AD Molded Plastic
- *Polarity: Color Band Denotes Cathode
- *Weight: 1.1grams
- *Mounting Position: Any

**SCHOTTKY BARRIER
RECTIFIERS**

**3.0 AMPERES
20-40 VOLTS**

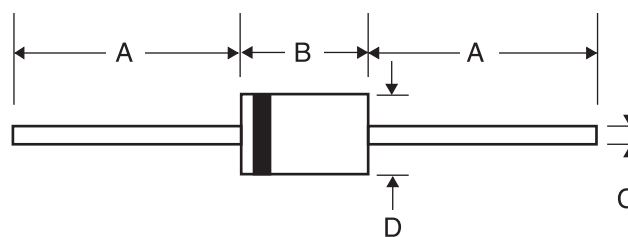


DO-201AD

DO-201AD Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



Dim	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
DO-201AD	25.40	-	7.30	9.50	1.20	1.30	4.80	5.60

Maximum Rating

Characteristic	Symbol	1N5820	1N5821	1N5822	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectifier Forward Current	$I_{F(AV)}$	3.0			A
Non-Repetitive Peak Square Current (Surge Applied at Rated Load Condition Halfwave, Single Phase, 60Hz)	I_{FSM}	80			A
Perating and Storage Junction Temperature Range	T_J, T_{STG}	-65 to + 125			°C

Electrical Characteristic

Characteristic	Symbol	1N5820	1N5821	1N5822	UNIT
Maximum Instanatneous Forward Voltage ($I_F=3.0Amp$) ($I_F=9.0Amp$)	V_F	0.475 0.850	0.500 0.900	0.525 0.950	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c=25^\circ C$) (Rated DC Voltage, $T_c=100^\circ C$)	I_R	2.0 20			mA
Typical Junction Capacitance ($V_R=4.0V$, $f=1.0MHz$)	C_P	250			pF

FIG.1 - FORWARD CURRENT DERATING CURVE

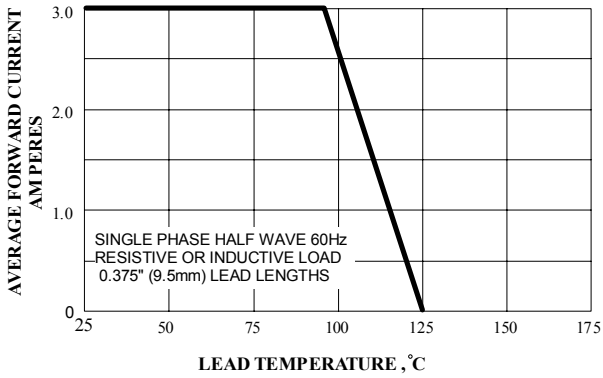


FIG.2 - TYPICAL JUNCTION CAPACITANCE

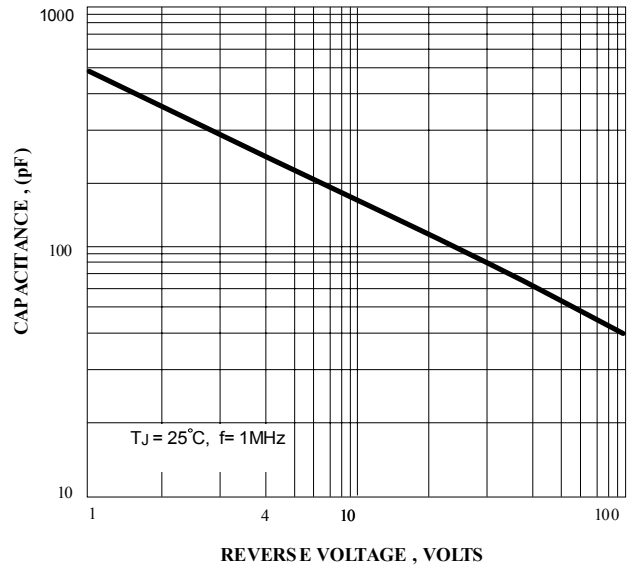


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

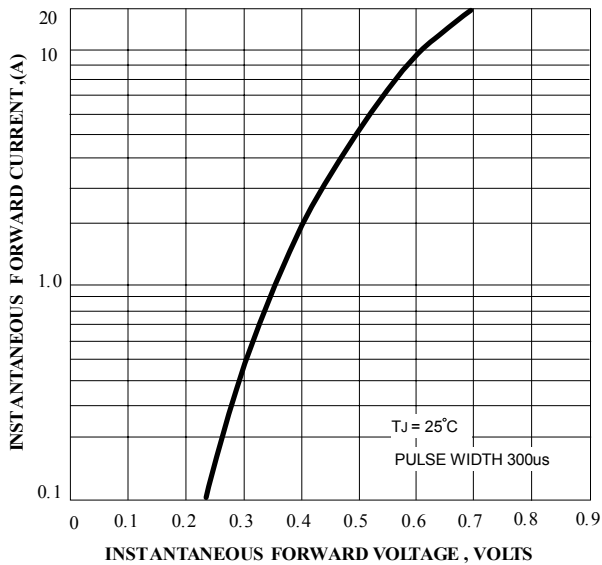


FIG.4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

