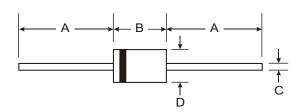




3.0A SCHOTTKY BARRIER RECTIFIERS

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- Plastic Material: UL Flammability Classification Rating 94V-0



DO-201AD					
Dim	Min	Max			
Α	25.40	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

Mechanical Data

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 1.1 grams (approx)

Weight. 1.1 grams (approx)
Mounting Position: Any

Marking: Type Number

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 Rectified Output Current (Note 1)	lo		3.0	•	Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) @ T _L = 75°C	I _{FSM}		80		Α
Forward Voltage (Note 2)	V _{FM}	0.475 0.850	0.500 0.900	0.525 0.950	٧
		2.0 20		mA	
Typical Thermal Resistance (Note 3)		40		°C/W	
		10			
Operating and Storage Temperature Range		-65 to +125		°C	

Notes:

- 1. Measured at ambient temperature at a distance of 9.5mm from the case.
- 2. Short duration pulse test used to minimize self-heating effect.
- 3. 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.



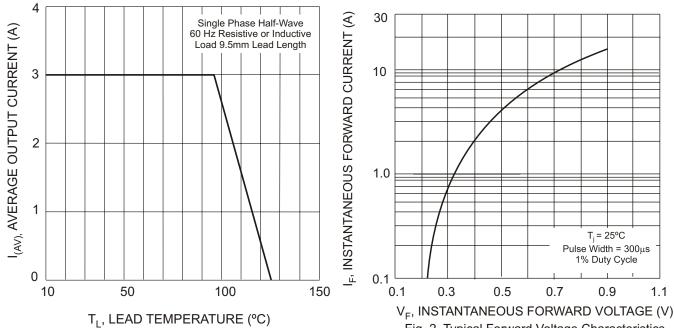
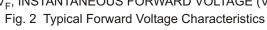
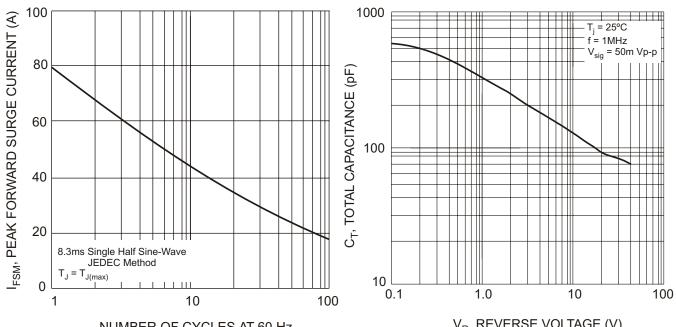


Fig. 1 Forward Current Derating Curve





NUMBER OF CYCLES AT 60 Hz Fig. 3 Peak Forward Surge Current

 V_R , REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance