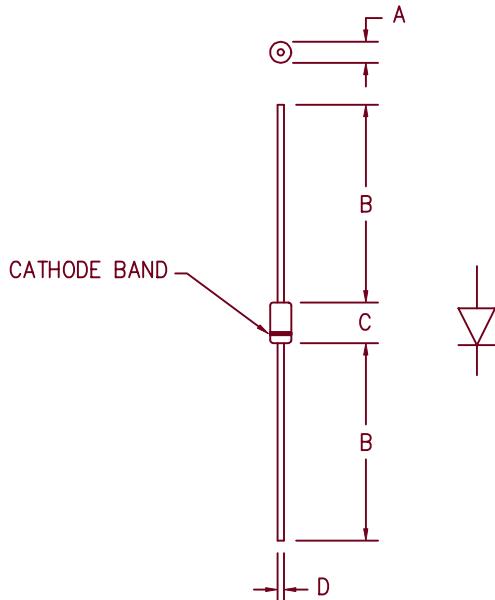


3 Amp Schottky Rectifier

1N5820, 1N5821, 1N5822



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5820	20V	20V
1N5821	30V	30V
1N5822	40V	40V

- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage
- High reliability
- High current capability
- Reverse energy tested

Electrical Characteristics

	1N5820	1N5821	1N5822	
Average forward current	I _{F(AV)}	3A	3A	3A
Case temperature	T _C	115°C	116°C	117°C
Lead temperature	T _L	85°C	86°C	88°C
Maximum surge current	I _{FSM}	150A	150A	150A
Max peak forward voltage	V _{FM}	.36V	.37V	.38V
Max peak forward voltage	V _{FM}	.46V	.48V	.50V
Max peak forward voltage	V _{FM}	.65V	.67V	.70V
Max peak reverse current	I _{RM}	1.5mA	1.5mA	1.5mA
Typical junction capacitance	C _J	265pF	265pF	265pF

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T _{STG}	-55°C to 150°C
Operating junction temp range	T _J	-55°C to 150°C
Maximum thermal resistance	L = 3/8" R _{θJL}	52°C/W Junction to lead
Weight	L = 0 R _{θJC}	28°C/W Junction to case .032 ounces (1.0 grams) typical

1N5820, 1N5821, 1N5822

Figure 1
Typical Forward Characteristics

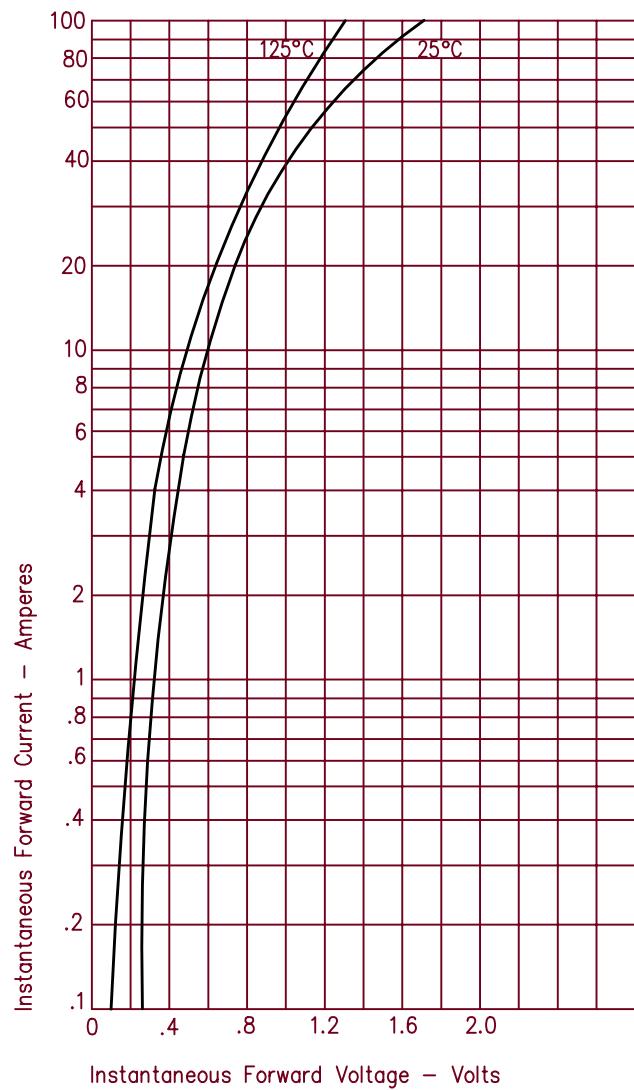


Figure 2
Typical Reverse Characteristics

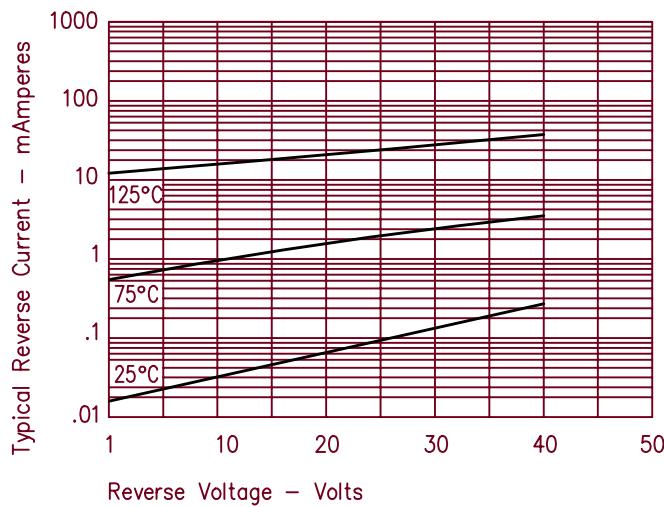


Figure 3
Typical Junction Capacitance

