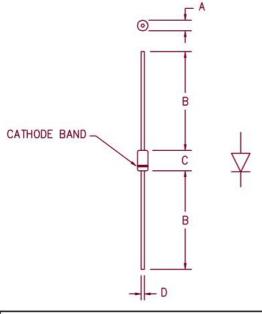
3 Amp Schottky Rectifier 1N5820,1N5821,1N5822



Dim	n. Inches		Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes	
Α	.188	.260	4.78	6.50	Dia.	
В	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

		1N5820	1N5821	1N5822	
Average forward current	IF(AV)	3A	3A	3A	_
Case temperature	TC	115°C	116°C	117°C	$^{R}\Theta JL = 28^{\circ}C/W$, $L = 0$ "
ead temperature	TL	85°C	86°C	88°C	$R_{\theta JL} = 52^{\circ} C/W, L = 3/8"$
Maximum surge current	VFM	150A	150A	150A	8.3ms, half sine, $^{T}J = 150^{\circ}C$
Max peak forward voltage	VFM	.36V	.37V	.38V	$IFM = 1A, TJ = 25^{\circ}C^{*}$
Max peak forward voltage	VFM	.46V	.48V	.50V	$IFM = 3A, TJ = 25^{\circ}C^{*}$
Max peak forward voltage	VFM	.65V	.67V	.70V	IFM = 9.4A, $TJ = 25°C*$
Max peak reverse current	IRM	1.5mA	1.5mA	1.5mA	V_{RRM} , $T_{J} = 25$ °C
Typical junction capacitance	CJ	265pF	265pF	265pF	$V_{R} = 5.0V, T_{J} = 25^{\circ}C$

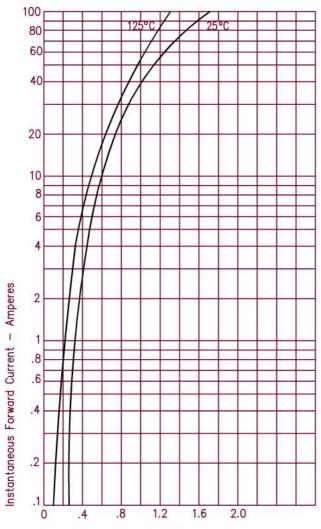
	Thermal an	d Mechanical	Characteristics		
Storage temperature range Operating junction temp range Maximum thermal resistance	TSTG TJ L = 3/8" R0JL		-55°C to 150°C -55°C to 150°C 52°C/W Junction to lead		
Weight		$= 0$ R _{θJC}	28°C/W Junction to cas .032 ounces (1.0 grams) typical		



3-13-00 Rev. 3

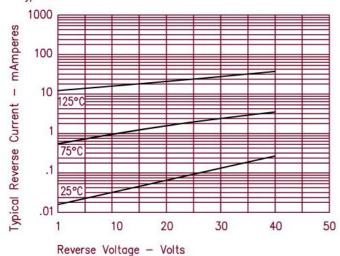
1N5820, 1N5821, 1N5822

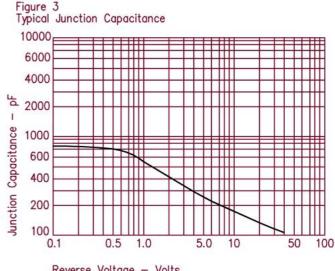
Figure 1 Typical Forward Characteristics



Instantaneous Forward Voltage - Volts

Figure 2 Typical Reverse Characteristics





Reverse Voltage - Volts